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NORTH CAROLINA
NATURAL HERITAGE PROTECTION PLAN
1991

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1991

Natural Heritage Program

Division of Parks and Recreation

North Carolina Department of Environment, Health, and Natural Resources

P.O. Box 27687

Raleigh, North Carolina 27611-7687

James G. Martin, Governor William W. Cobey, Jr., Secretary

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NATURAL HERITAGE PROTECTION PLAN

INTRODUCTION

The North Carolina Nature Preserves Act (NCGS 113A-164.3(4)) requires the production of a Natural Heritage Plan that guides the Natural Heritage Program in the creation of a system of registered and dedicated natural areas. The plan is based on 14 years of data collection and analysis of the state's ecological resources, their rarity, threat and protection status. A revised plan is produced every two years.

Approximately 1,000 natural areas in North Carolina have been identified by the Natural Heritage Program as possessing ecological resources of national, statewide, or regional significance. As the inventory of special natural areas and rare species habitats progresses, many other important sites will likely be identified and added to the natural areas priority list. Only about a third of our state's finest natural areas are protected, and nearly half of the state's endangered and threatened species are unprotected at even a single population site. The need for actions to ensure the protection and survival of North Carolina's natural heritage is urgent.

The Natural Heritage Protection Plan provides direction for the addition of new areas to the State Registry of Natural Heritage Areas and to the Dedicated Nature Preserves System. The plan also recommends natural areas that may be best protected through acquisition by public or private conservation agencies. Specific contents of the plan include:

- Priorities of future inventory and protection efforts.
- Criteria for selection of priority natural areas.
- Procedures and alternative methods for protecting threatened elements of natural diversity and priority natural areas.
- 1991 priority natural areas list.
- Recommended protection strategies for priority natural areas.
- Recommended roles of various agencies for ensuring the protection of those areas.

The plan should assist state and federal agencies, the N.C. Nature Conservancy, and other private land conservation organizations in determining protection priorities and implementing policies to protect the full range of natural diversity in North Carolina.

PURPOSE OF NATURAL AREAS

The State Nature Preserves Act of 1985 declared the policy that:

> The continued population growth and land development in North Carolina have made it necessary and desirable that areas of natural significance be identified and preserved before they are destroyed. These natural areas are irreplaceable as laboratories for scientific research, as reservoirs of natural materials for uses that may not now be known, as habitats for plant and animal species and biotic communities, as living museums where people may observe natural biotic and environmental systems and the interdependence of all forms of life, and as reminders of the vital dependence of the health of the human community on the health of the other natural communities.
>
> It is important to the people of North Carolina that they retain the opportunity to maintain contact with these natural communities and environmental systems of the earth and to benefit from scientific, aesthetic, cultural, and spiritual values they possess.

Natural areas are generally considered to be areas of land or water that (1) retain or have reestablished natural character, (2) provide habitat for rare or endangered species of animals or plants, or (3) have natural features of special scientific or educational value.

ELEMENT APPROACH TO DETERMINE PRIORITY NATURAL AREAS

North Carolina's natural diversity consists of thousands of plant and animal species, all interacting with each other and their physical environment. The Natural Heritage Program has classified special "elements" of the state's natural diversity and applies a systematic approach to inventory and protect this diversity.

The elements are the focus of the program's inventory and protection efforts. The program monitors approximately 1,200 "elements of natural diversity," which represent the rarest, most significant, and most threatened remnants of our natural heritage. Data are gathered on the locations of special elements as well as their rarity and threats to them.

Monitored Elements of Natural Diversity

At a broad level, an element may be an entire ecological system such as a natural community (terrestrial or aquatic), including the plants and animals of that system and the associated soils, geology, and hydrologic features. At a species-specific level, an element would be a species of plant or animal considered rare or endangered in North Carolina. Therefore, the element of natural diversity on which the Natural Heritage inventory is based can be a rare plant or animal, an outstanding example of a natural community or ecosystem, or an unusual geologic landform.

Of the total biological diversity of North Carolina, the Natural Heritage Program monitors about 21 percent of the species of vertebrate animals (182 out of about 850 species), about 12 percent of vascular plants (489 out of about 4,000 species), and about 9 percent of nonvascular plants, excluding algae (138 out of about 1500 species). In addition, 242 species of invertebrate animals are monitored, a tiny but indeterminable percentage of the invertebrate fauna of the state.

The monitoring of natural communities is different than that of species, since prioritization depends primarily on quality or condition rather than rarity. The database includes high-quality examples of 114 natural community types (not including aquatic systems) in the state. Some of these natural community types are quite rare and even threatened with potential for elimination from the state. Other categories of elements monitored by the program include special wildlife habitats (such as nesting concentrations of shorebirds, other bird rookeries, and colonies of bats) and exceptional examples of geomorphic landforms.

Rankings of Elements of Natural Diversity

All elements are given global and state rankings based on rarity and threat throughout their entire range and within North Carolina. This rating system was developed by The Nature Conservancy. Global and state ranks have been determined for each natural element inventoried by the Natural Heritage Program, as well as for other more common species native to the state. The global rarity and protection status of each element is determined through discussions with other state natural heritage programs and The Nature Conservancy. The in-state rarity statuses of elements are decided by the Natural Heritage Program after review of all records, consultation with other biologists, and systematic analysis according to the standardized process described in this plan and in detail in the program's Operations Manual. Rankings of species have been determined in consultation with staff of the state's Plant Conservation Program and the Nongame and Endangered Wildlife Program.

These rankings are periodically updated as new information becomes available. The data are used to determine priorities for future field investigations and protection efforts. Elements that are the rarest and in most danger on a nationwide or statewide basis receive the highest priorities. Elements that are more common, are in less danger, or are adequately protected are given a lower priority or may be dropped from further consideration.

The Natural Heritage Program compares sites containing the same element and, based on quality and representation of the element, identifies the most important sites for protection. This element-based approach ensures that biologically important but little-known sites are considered along with better known sites. The process and criteria for determining protection priorities will be explained in greater detail in the following pages.

Natural Element Ranking

The Natural Heritage Program's inventory is based on data collected on the occurrences of nearly one thousand "elements" of natural diversity--rare and endangered species, exemplary or unique natural community types and geologic landforms, and outstanding wildlife habitats. By the end of 1990, the inventory contained 9,146 records on locations of these special resources. Each year, the program normally adds more than 1,000 new occurrence records and updates, edits, or deletes several thousand records. At the end of 1990, the inventory included "element occurrence" records for:

- 151 state endangered or threatened species of plants, and 431 "special concern," "candidate," or "significantly rare" plant species.
- 91 state endangered or threatened species of animals, and another 333 "special concern" or "significantly rare" animal species.
- 114 major natural community types.
- special wildlife habitats (such as nesting colonies of birds or bats),
- geologic landmarks exemplary of geomorphic processes.

Classification lists of the natural community types and "rare" plant and animal species inventoried and monitored by the Natural Heritage Program identify the relative rarity and endangerment status for each element. Natural elements receive priority attention primarily according to their relative rarity and protection status throughout their entire range. Most of the 50 state natural heritage programs have adopted the element ranking system developed by The Nature Conservancy, which enables them to make nationwide comparisons and determinations of the relative rarity and endangerment of each natural element. Global and state ranks are defined for each element monitored by the Natural Heritage Program. In order to define global and state ranks, evaluations have been completed for each natural element inventoried by the Natural Heritage Program. For each monitored element, the following information has been assembled:

- the habitat or community in which the natural element occurs;
- definition of an element "occurrence";
- the official state and federal endangerment status;
- degree of legal protection;
- total estimated number of occurrence of the element in the world and in the state;
- estimated total abundance in numbers of individuals existing globally and in the state;
- total range of the element globally and in the state;
- number of adequately protected element occurrences globally and in the state;
- relative threat for destruction of the element;
- ecological fragility of the element;
- inventory and research needs;
- other protection and management needs.

Element ranks for natural communities and special animal and plant species are contained in the program documents cited in the appendix of this plan.

GLOBAL ELEMENT RANKS:

G1 = Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor of its biology making it especially vulnerable to extinction. [Critically endangered throughout range.]

G2 = Imperiled globally because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of other factors demonstrably making it very vulnerable to extinction throughout its range. [Endangered throughout range.]

G3 = Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range (e.g., a single western state, a physiographic region in the east) or because of other factors making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 to 100. [Threatened throughout range.]

G4 = Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.

G5 = Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.

GA = Accidental in North America, i.e. not part of the established biota (e.g., European Cuckoo, Yellow-nosed Albatross, many other bird species).

GE = An exotic species established in North America (e.g., Japanese Honeysuckle).

GH = Of historical occurrence throughout its range, i.e. formerly part of the established biota, with the expectation that it may be rediscovered (e.g., Ivory-billed Woodpecker).

GU = Possibly in peril range-wide but status uncertain; need more information. NOTE: This rank should be used sparingly. Whenever possible, assign the most likely rank and add a question mark (e.g., G2?) to express uncertainty or indicate a range (e.g., G1G2, G1G3).

GX = Believed to be extinct throughout range (e.g., Passenger Pigeon).

STATE ELEMENT RANKS:

S1 = Critically imperiled in state because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor of its biology making it especially vulnerable to extirpation from the state. [Critically endangered in state.]

S2 = Imperiled in state because of rarity (6 to 20 occurrences or few remaining individuals or acres) or because of other factors demonstrably making it very vulnerable to extirpation from the state. [Endangered in state.]

S3 = Rare in state (on the order of 20+ occurrences). [Threatened in state].

S4 = Apparently secure in state.

S5 = Demonstrably secure in state.

SA = Accidental in state, including species which only sporadically breed in state.

SE = An exotic species established in state; may be native elsewhere in North America (e.g., house finch or catalpa in eastern states).

SH = Of historical occurrence in the state with the expectation that it may be rediscovered.

SU = Possibly in peril in state but status uncertain; need more information. NOTE: This rank should be used sparingly. Whenever possible, assign the most likely rank and add a question mark (e.g., S2?) to express uncertainty or indicate a range (e.g., S1S2).

SX = Apparently extirpated from state.

CRITERIA FOR SELECTING INVENTORY PRIORITIES

The Natural Heritage Program determines its priorities for inventory of natural elements and geographic areas based, in largest part, on the potential for finding high-ranked natural community types and species. Normally, the program will place higher priority on developing inventory projects for regions of the state that are known to contain exceptionally important natural areas and ecological elements, but which have not been adequately or completely surveyed. The program is most interested in undertaking surveys (1) to locate and evaluate occurrences of natural communities and species that have element ranks of G1-G2-G3 and S1-S2-S3 (ie., rarest and most imperiled), and (2) of geographical parts of the state with greatest potential for containing high-ranked elements and important natural areas. The program's classification lists of monitored elements cited in the appendix of this plan note their element ranks. The following map indicates the sections of the state where the program places top priority for inventory work in the near future.

Other high priority subjects for Natural Heritage inventory work during the next two years are:

Imperiled ecosystems (inhabited by many rare species):

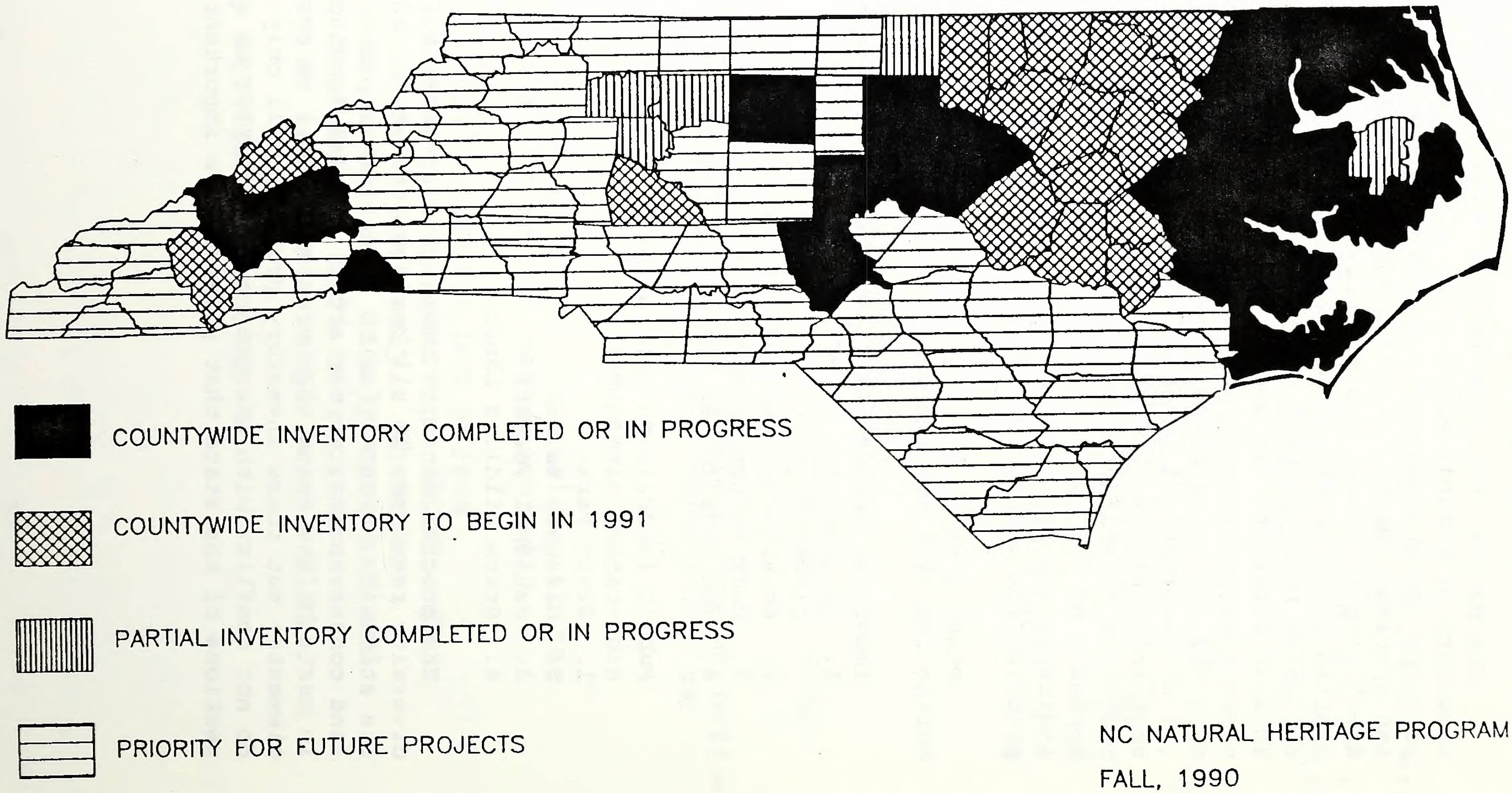
1. Longleaf and Sandhills communities of the coastal plain and piedmont regions
2. Nonalluvial wetlands of the mountains and piedmont regions
3. Rock outcrop communities
4. Wet nonalluvial forests of the coastal plain

Public lands (with high numbers of important natural areas and high-ranked elements):

1. State Parks
2. Military Bases
3. National Forests
4. State Wildlife Lands

The program wants to complete systematic surveys of natural diversity resources in all parts of the state, and, in order to extend its statewide inventory or to assist other public agencies and regional land conservancies, it may accept special funding to undertake surveys in parts of the state that are less likely to possess high-ranked elements; but these inventory projects will only be undertaken when they do not conflict with the program's abilities to conduct inventories in sections of the state that possess more important resources.

PRIORITIES FOR CONDUCTING COUNTYWIDE NATURAL HERITAGE INVENTORIES


■ COUNTYWIDE INVENTORY COMPLETED OR IN PROGRESS
▩ COUNTYWIDE INVENTORY TO BEGIN IN 1991
▥ PARTIAL INVENTORY COMPLETED OR IN PROGRESS
▤ PRIORITY FOR FUTURE PROJECTS

NC NATURAL HERITAGE PROGRAM
FALL, 1990

CRITERIA FOR DETERMINING PROTECTION PRIORITY

This section discusses criteria used to determine priorities for protection of special plants and animals, natural communities, and geologic features. Many species of plants and animals can be protected by preserving representatives of the major natural communities in the state. But some species are so rare that they may not be found in a protected natural community type. These "special" species require attention to ensure the protection of principal habitat locations. The Natural Heritage inventory collects occurrence data on all known locations of rare and endangered species of plants and animals as well as high-quality representatives of major natural community types and plant community subtypes, geologic landforms, and unique wildlife habitats. This data is periodically analyzed on the basis of evaluation criteria, and the specific natural elements are assigned priorities for future inventory work and protection efforts.

Evaluation Criteria

The major criteria used to evaluate natural elements are:

1. Rarity. The element's geographic distribution and the number of verified occurrences within North Carolina and the rest of its range.

2. Threats. The actual security of suitable habitat for the element, the factors that are contributing to its decline, the rate of decline, the ecological fragility of the element, the remaining number of the element's population, and the amount of its remaining habitat.

3. Protection potential. The likelihood that an element's populations or habitats, or both, can be protected and managed for its survival. Whether or not a currently protected occurrence(s) is an adequate representation of the element. This evaluation is based on several factors, including: whether or not the element occurs in an essentially natural condition in that specific location; whether the site provides a diversity of ecological resources typical of the element's range of variation; and whether the site has the size, shape, conditions, location, and biological characteristics within the protected area to ensure the existence of the element.

Changes in Element Priority

The Natural Heritage Program will monitor the status of elements and reassign priorities as deemed necessary. If new conditions greatly increase the threats to an element or if inventory work reveals that the element is more rare or otherwise vulnerable than orginally believed, its priority will be raised. On the other hand, when an element is adequately represented on protected natural areas or is more common than originally believed, its priority ranking will be lowered or it will cease to be ranked.

Priority Site Selection

Selecting a prospective site for protection by registration, dedication, or acquisition is essentially a two-step process:

1. Element Occurrence Analysis. Comparison of the various occurrences of a natural element. This assessment will vary with the biology/ecology of that specific element, but includes:

    a. determination of which occurrences provide adequate representation and best representation of the element; this includes consideration of ecological quality, diversity, and viability; and

    b. evaluation of the health of the element occurrence(s) (its population or condition) based on its ability to persist or perpetuate over time at that site.

(Note that these criteria are relative for each element. A somewhat disturbed diabase cedar glade may be the best example in the state, or a vulnerable habitat for pondspice (Lindera melissaefolia) may be the only known location of the endangered plant in North Carolina; it should then be selected for protection efforts. The same degree of disturbance or low quality of the site of a more common element type would make that site one of low interest and low priority for protection efforts.

2. Site Analysis. The emphasis of this consideration shifts to the site as a whole (not confined solely to the primary element occurrences). Site characteristics considered include:

    a. defensibility - does the site adequately protect the element occurrences against unnatural encroachments?

    b. manageability - can the site be managed (actively or passively) to maintain the primary elements or natural processes?

Another major consideration in the selection of a protection priority for a natural area is the presence of multiple special-interest elements. Some sites may be important as the location of a single element — such as endangered species habitat, or the only known example of a natural community — but it is a more efficient use of resources to select sites with multiple elements, combining several natural communities and special species.

Areas selected through this evaluation process are listed on the Natural Heritage Areas Priority List. These sites are the focus of protection efforts through landowner contact, proposals for registration or dedication, or possible acquisition.

Natural Element Ranking

The Natural Heritage Program's inventory is based on data collected on the occurrences of nearly one thousand "elements" of natural diversity -- rare and endangered species, exemplary or unique natural community types and geologic landforms, and outstanding wildlife habitats. By the end of 1990, the inventory contained 9,146 records on locations of these special resources. Each year, the program normally adds more than 1,000 new occurrence records and updates, edits, or deletes several thousand records. At the end of 1990, the inventory included "element occurrence" records for:

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- total range of the element globally and in the state;
- number of adequately protected element occurrences globally and in the state;
- relative threat of destruction of the element;
- ecological fragility of the element;
- inventory and research needs;
- other protection and management needs.

Element ranks of natural communities and special animal and plant species are contained in the program documents cited in the appendix of this plan.

Element Occurrence Scorecards

The Natural Heritage Program has prepared "scorecards" for all known occurrences of highly ranked natural elements. The scorecard provides information that helps determine protection priorities and helps monitor progress in protecting important elements of the state's natural diversity. This document relates ecological priorities to conservation efforts, thus providing a basis for protection planning and also providing feedback on whether conservation activities have been well focused.

The scorecard presents highly condensed information about elements of natural diversity, their principal occurrences, the property tracts involved at these sites, the ownerships of the sites, the degree to which each tract is currently protected, and the degree of protection and management appropriate for each tract.

Most of the information that appears on a scorecard comes from much more detailed information found in the Natural Heritage inventory. In essence, the scorecard condenses into one document the record of the entire preserve selection and design process for a natural element.

A "site tracking record" contains the listing of all special natural elements known to occur in a specific natural area.

Case Sample: Rough-leaved loosestrife

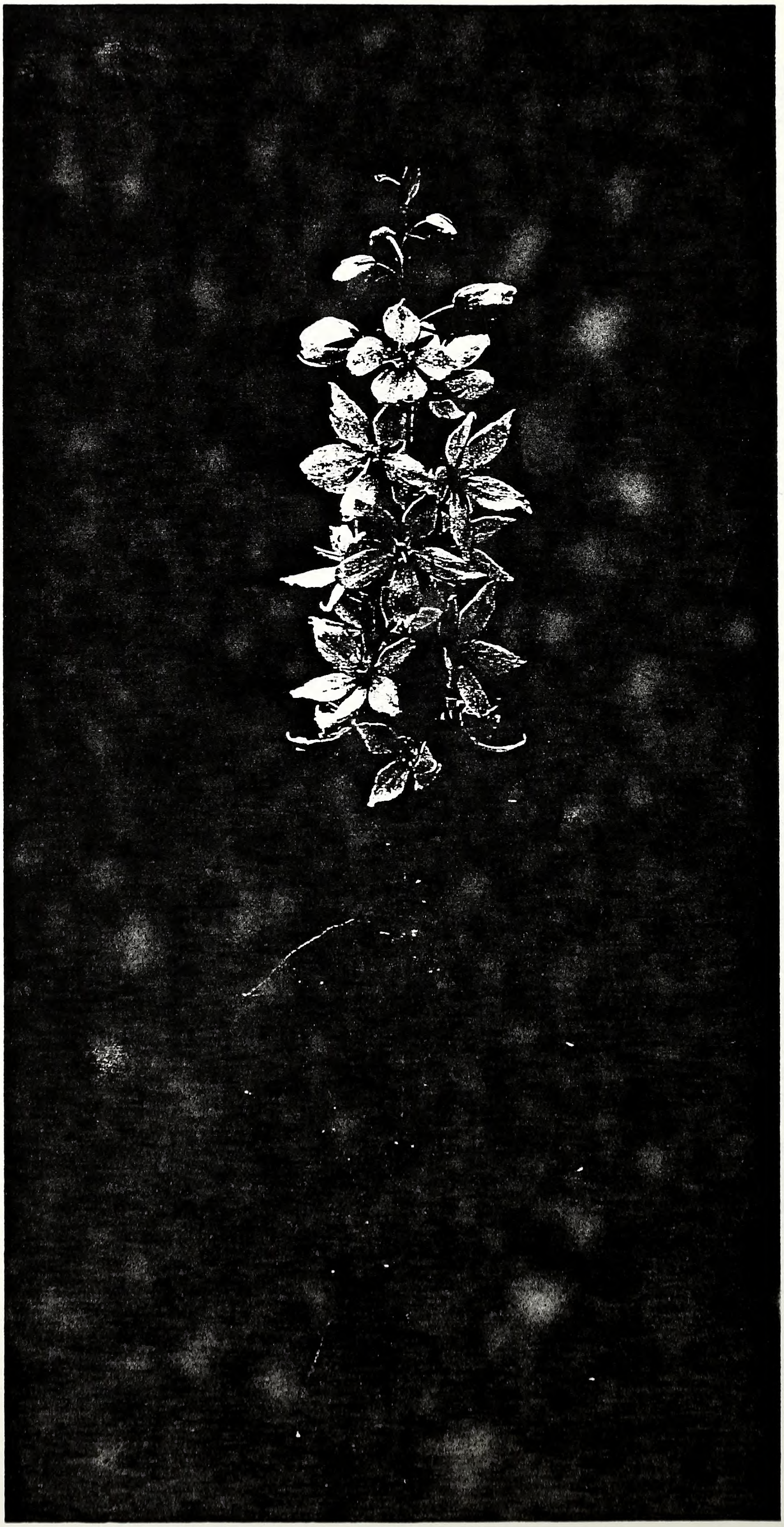
One natural element inventoried and monitored by the N.C. Natural Heritage Program is offered as an example of how the process of determining protection priorities works. The rough-leaved loosestrife (Lysimachia asperulaefolia) is a showy perennial plant that is endemic to the Coastal Plain and Sandhills of North and South Carolina. It generally occurs in the ecotones or edges between longleaf pine uplands and pond pine pocosins, but it is also known to occur in deep peat in the low shrub communities of large Carolina bays. All these habitats are fire maintained. Suppression of naturally occurring fires in these areas results in growth of shrub vegetation, which eliminates the open edges required for the survival of the loosestrife. Fire suppression, drainage, and, to a lesser extent, residential and industrial development have altered and eliminated habitat for this species.

Natural Heritage Program staff and other cooperating and contracted botanists conducted a systematic survey of the Coastal Plain region to document the locations and conditions of the loosestrife in North Carolina, while similar surveys in South Carolina failed to find any populations still existant in historic habitat locations in that state. The survey revealed that only 14 populations of the species remained in existence, all in North Carolina, and another eight populations had been destroyed. That data was sufficient evidence to convince the U.S. Fish and Wildlife Service to list the loosestrife as a nationally endangered species.

The following pages present examples of the previously described components of the process for evaluating and ranking the rough-leaved loosestrife, selecting its highest priority sites, and determining site protection priorities.

A variety of protection actions have been applied or are recommended in the attempt to preserve and maintain a number of the endangered species populations. The following example "element occurrence record" for a Brunswick County site of the rough-leaved loosestrife is from the Boiling Spring Natural Area. Natural Heritage staff identified ownerships and recommended that the N.C. Nature Conservancy make the area a high priority for a protection project. The corporate owner offered the land for sale, but The Nature Conservancy did not have sufficient private funds to make the purchase. The best alternative has been to recruit the interest of another "conservation buyer," an individual conservationist who is willing to purchase the tract and voluntarily enter a protection agreement with The Nature Conservancy and Natural Heritage Program.

Populations on other sites in public ownership have been identified for the management agencies, their populations marked, and habitat maintenance recommendations made. The agencies that manage population sites in the Croatan National Forest, Camp Lejeune Marine Corps Base, Holly Shelter State Game Land, Sunny Point Military Ocean Terminal, Fort Bragg Army Base, and Bushy Lake State Natural Area have been generally cooperative in adopting policies for protection and maintenance of the habitats. The Farmers Home Administration has given the State of North Carolina title to a bankrupt farm to supplement and protect the Bushy Lake State Natural Area. Carolina Power & Light Company has voluntarily agreed to maintain a loosestrife population under a transmission powerline without using herbicides and by scheduling mowing only in the dormant winter season. A private landowner entered a voluntary registry agreement to protect the Mill Pond Bay Natural Area in Bladen County. The loosestrife population in The Nature Conservancy's Green Swamp Preserve is part of a registered Natural Heritage Area, which is proposed for dedication as a North Carolina Nature Preserve. The survival of this endangered species may be ensured by these protection actions.



Rough-leaved loosestrife
Lysimachia asperulaefolia
lie-sih-MACK-ee-ah
as-per-oo-lee-FOE-lee-ah
Primrose family,
Primulaceae
North and South Carolina
Photograph by
Kerry T. Givens

This showy perennial is an inhabitant of the Eastern coastal plain and sandhills of North Carolina. The species grows in full sun in the areas between longleaf pine uplands, savannas, and pond pine pocosins (areas of dense shrub and vine growth, usually on peaty, poorly drained soil).

L. asperulaefolia bears terminal racemes of five-petaled flowers that appear from mid-May through June. The stems reach a height of two feet, arising from a rhizome.

Historically, the habitat occupied by this plant has been maintained by periodic wildfires. Although it may grow for a time in areas that are being invaded by woody plants, it will eventually be crowded out if regular burns do not occur. Fire suppression is therefore the primary threat to this species. Drainage for tree farming and agriculture, and residential and industrial development are also problems.

Once known from 19 sites in North and South Carolina, today the species is known from only nine populations, all located in North Carolina. Many remaining populations are small, so lack of genetic variability is a potential problem. One site is protected by The Nature Conservancy.

SAMPLE ELEMENT GLOBAL RANKING FORM: ROUGH-LEAVED LOOSESTRIFE

```
                    Element Global Ranking Form as of 26 FEB 1991
                              LYSIMACHIA ASPERULIFOLIA
Identifiers:
ELCODE:         PDPRI07010
GNAME:          LYSIMACHIA ASPERULIFOLIA
ELDESCRIP:      A RHIZOMATOUS PERENNIAL

EO Specifications:
EOSPECS:        ANY NATURALLY OCCURRING POPULATION

ARANKSPECS:     POPULATIONS WITH ALL OF THE FOLLOWING: MANY GENETS, MANY RA
                METS, FLOWERING VIGOROUSLY, IN NATURAL SITE (FIRE)

BRANKSPECS:     POPULATIONS WITH MOST OF THE FOLLOWING: MANY GENETS, MANY R
                AMETS, FLOWERING VIGOROUSLY, IN NATURAL SITE (FIRE)

CRANKSPECS:     POPULATIONS LACKING MOST OF THE FOLLOWING: MANY GENETS, MAN
                Y RAMETS, FLOWERING VIGOROUSLY, IN NATURAL SITE (FIRE)

DRANKSPECS:     POPULATIONS WITH FEW GENETS, FEW RAMETS, FLOWERING POORLY, I
                N SITE MAINTAINED BY UNNATURAL MEANS (MOWING)

Descriptors:
GTAXCOM:

OLD.TAXCOM:     DISTINCT SPECIES IN LARGE GENUS (CA. 160 SPECIES WORLDWIDE),
                SOMEWHAT RELATED TO LYSIMACHIA LOOMISII (ALSO ENDEMIC TO TH
                E CAROLINAS), L. TERRESTRIS, & L. QUADRIFOLIA.

GEXEMPSITE:     GREEN SWAMP PRESERVE (TNC), BRUNSWICK COUNTY, NC
HABITAT:        POCOSIN EDGES, SAVANNA/POCOSIN ECOTONES, OPENINGS IN POCOSIN
                S, POWERLINE AND ROAD RIGHTS-OF-WAY IN POCOSINY DRAINS

PERMANENCE:     PERMANENT, POPULATIONS APPARENTLY LONG-LIVED

Ranking Factors:
GESTEOS:        C
GESTEOSCOM:     24 EXTANT POPULATIONS, CLUSTERED IN A FEW SMALL AREAS IN THE
                COASTAL PLAIN OF NORTH CAROLINA. 15 EXTIRPATED POPS.

GABUND:         A
GABUNDCOM:      THIS SPECIES IS CLONAL & MANY OF THE POPULATIONS MAY CONSIST
                OF ONLY ONE OR A FEW INDIVIDUALS

GRANGE:         B
GRANGECOM:      SOUTHEASTERN COASTAL PLAIN AND SANDHILLS OF NORTH CAROLINA.
                HISTORICALLY ALSO IN SOUTH CAROLINA.

GTREND:
GTRENDCOM:

GPROTEOS:       C
GPROTCOM:       SEVERAL PROTECTED ON NATURE CONSERVANCY PRESERVES AND HERITA
                GE PROGRAM REGISTERED AREAS
```

```
GFRAGIL:     C
GFRAGILCOM:

GOTHCONSID: POOR SEXUAL REPRODUCTION, MOST POPULATIONS VERY VULNERABLE

Rank and Reasons:
GRANK:       G2       GREVDATE:  89-04-25
GREASONS:    HIGH THREATS, PROBABLY LOW NUMBER OF GENETS, POOR REPRODUCTI
             ON, IMPACTED BY LANDSCAPE TRENDS THAT ARE ACCELERATING, NARR
             OW ENDEMIC WITH DEMOSTRABLE DECLINE, POPULATIONS CLUSTERED I
             NTO FEW "METAPOPULATIONS"

Needs:
GRSRCHNEED:  POPULATION BIOLOGY, EFFECTS OF FIRE ON ASEXUAL AND SEXUAL RE
             PRODUCTION

GINVENNEED:  MORE INVENTORY NEEDED IN SOUTHEASTERN NORTH CAROLINA AND NOR
             THEASTERN SOUTH CAROLINA

GPROTNEED:   PROTECT AS MANY POPULATIONS AS POSSIBLE, AND MANAGE WITH FIR
             E

GSTEWNEED:   FIRE TO REDUCE SHRUBBY COMPETITORS

Record Maintenance:
GRANKRESP:   NCHP

EDAUTHOR:    ALAN S. WEAKLEY (NCNHP)
EDITION:     89-04-25

UPDATE:  89-04-25
```

SAMPLE ELEMENT OCCURRENCE RECORD:
Rough-leaved Loosestrife site in Boiling Springs natural area

```
                         Element Occurrence Record
                          LYSIMACHIA ASPERULIFOLIA
                                  02/26/91
Identifiers:
                Elcode   EO# State:
EOCODE:       PDPRI07010*022*NC       IDENT: Y             FONUM:
SCOMNAME:     ROUGH-LEAF LOOSESTRIFE
 ELEMENT RANKS:  GRANK:  G2       NRANK:             SRANK:  S2
                                                                 COUNTY-
Locators:                                                        CODE:
NATION:       US        SITECODE:  S.USNCHP*104                  NCBRUN

SITENAME:     BOILING SPRING LAKES--WETLAND COMPLEX
SURVEYSITE:

PRECISION:    S
                        QUAD     MARG DOT   TEN
QUADNAME:               CODE:    NUM: NUM:  TEN:
FUNSTON                 3407811

     LAT:   340050N        S:
     LONG:  0780434W       N:
                           E:
                           W:

DIRECTIONS: BOILING SPRING LAKES:  HEADWATERS OF ALLEN CREEK, S OF CREEK
            (MOORE ET AL. 1988).

WATERSHED:

Status:
SURVEYDATE: 1988-07-07     LASTOBS: 1988-07-07    FIRSTOBS:  1988
EORANK:     B          EORANKDATE:
EORANKCOM:  SMALL DOCUMENTED POPULATION
EODATA:     CA. 30 STEMS SEEN (MOORE ET AL. 1988).

Description:
GENDESC:    POCOSINY ECOTONE BETWEEN SMALL STREAM SWAMP AND FLATWOODS
            AND SANDHILLS, WITH RHODODENDRON ATLANTICUM.

ELEV:                SIZE:

Protection:
   MACODE:   MANAME:                                      CONTAINED:

MORELAND:       MOREPROT:       MOREMGMT:        TNCINVOLVE:

MGMTCOM:

PROTCOM:    PART OF TRACT REEVES INTERESTED IN SELLING

Ownership:
OWNER:      REEVES TELECOM                               OWNERINFO:  Y
[illegible]
```

Optional Fields:
GEOMORPH: CCI
GEOL:
SPECSTAT:
SURVEY: P
SOIL: -
-

ELEMENTSPP:

Documentation and Maintenance:
DATASENS: BOUNDARIES: PHOTOS:
BESTSOURCE: MOORE, WEAKLEY, ANNAND, BOYUM, TAYLOR, 7 JULY 1988 (FORM).

TRANSCRIBR: 88-10-04 ASW SOURCECODE:
MAPPER: 88-10-04 ASW
DATARESP:
UPDATE: 88-10-04 ASW

EXPLANATION OF NC NATURAL HERITAGE PROGRAM DATABASE OUTPUT

Probably the most important database kept by the N.C. Natural Heritage Program is the one that tracks occurrences of elements of natural diversity (rare animals, rare plants, geologic features, special animal habitats). The output (printout) you have received is a subset of this very large database. Each record (an occurrence) is printed out in a particular format, the structure of which is explained below.

NAME: Scientific name of the element. We attempt to use the currently accepted scientific name for each species. Some of these names may not match those in existing manuals. Names for natural community types are from Schafale, M.P., and A.S. Weakley. 1990. Classification of the Natural Communities of North Carolina, Third Approximation. N.C. Natural Heritage Program. Copies of this document and complete current lists of element species are available from the Natural Heritage Program.

EOCODE: Internal coding for the element occurrence. The first letter indicates the kind of element:

A=vertebrate animal
C=natural community
G=geologic feature
I=invertebrate animal
N=nonvascular plant
P=vascular plant
S=special animal habitat

For vertebrates, the second letter indicates the order (taxonomic), with A=amphibians, B=birds, F=fish, etc. For vascular plants, the second letter indicates whether the plant is a monocot (M), dicot (D), pteridophyte (P), or gymnosperm (G). For nonvascular plants, the second letter indicates whether the plant is a bryophyte (B) or lichen (L). For natural communities, the third, fourth, and fifth letters indicate the wetland category into which the community type falls: TER=terrestrial, PAL=palustrine, EST=estuarine, MAR=marine.

The last 3 digits, following the decimal point, are the number of that occurrence of the species in the database. Use this number if further reference to a specific element occurrence is needed.

COMNAME: Common name of the element.

FEDSTAT: Federal status of the species, from Endangered & Threatened Wildlife and Plants, April 10, 1987. 50 CFR 17.11 & 17.12. Department of Interior. Established by the Endangered Species Act of 1973, as amended.

LE = Taxa currently listed as Endangered
LT = Taxa currently listed as Threatened
PE = Taxa currently proposed for listing as Endangered

PT = Taxa currently proposed for listing as Threatened
Taxa under review for possible listing ("candidate species"):
C1 = Taxa with sufficient information to support listing
C2 = Taxa without sufficient information to support listing
Taxa no longer under consideration for listing:
3A = Taxa with persuasive evidence of extinction
3B = Taxa that, on the basis of current understanding, are not distinct.
3C = Taxa that have proven more abundant or widespread than previously thought and have been dropped from consideration. They may be reevaluated in the future.

STATESTAT: Status of the species in North Carolina.
For plants:
E = Endangered
T = Threatened
SC = Special Concern
C = Candidate
SR = Significantly Rare

E,T,and SC species are protected by state law (the Plant Protection and Conservation Act, 1979); the other two categories indicate rarity and the need for population monitoring, as determined by the Plant Conservation and Natural Heritage Programs.

For animals:
E = Endangered
T = Threatened
SC = Special Concern
SR = Significantly Rare
UNK = Undetermined
EX = Extirpated

Endangered, Threatened, and Special Concern species of Mammals, Birds, Reptiles, and Amphibians have legally protected status in North Carolina (Wildlife Resources Commission). Lists for Fishes have not yet been adopted but are expected by 1991. Lists for Mollusks were submitted in 1990, but are not yet legally protected until adopted.

GRANK: Nature Conservancy "global rank."
G1 = Critically imperiled globally because of extreme rarity or otherwise very vulnerable to exinction throughout its range
G2 = Imperiled globally because of rarity or otherwise vulnerabl to extinction throughout its range.
G3 = Either very rare and local throughout its range, or found locally in a restricted area.
G4 = Apparently secure globally, though it may be quite rare in parts of its range (especially at the periphery).
G5 = Demonstrably secure globally, though it may be quite rare i parts of its range (especially at the periphery).
GU = Possibly in peril but status uncertain; need more informati
GH = Of historical occurrence only throughout its range, with the expectation that it may be rediscovered.
GX = Believed to be extinct throughout range.

Q = a suffix attached to the Global Rank indicating questionable taxonomic status.
T_ = an additional status for the subspecies or variety; the G rank then refers only to the species as a whole.

SRANK: Nature Conservancy state rank. Coding similar to global ranks.
Additional SRANK codes:
SA = Accidental in state
SN = Regularly occurring in migratory or nonbreeding seasons only.
SR = Reported from the state, but without persuasive documentation which would provide a basis for either accepting or rejecting.

COUNTY: Acronym for the county. In general, this is "NC" and the first four letters of the county name.

QUAD: USGS 7.5 minute quad map name.

PRECISION: The precision with which the location can be mapped from the available information: S=seconds (hundreds of feet), M=minutes (up to 1.5 mile radius), G=general (to a place name only, or up to 5 mile radius).

LAT, LONG: Latitude and Longitude coordinates for the center of the occurrence.

LASTOBS: Year, month, and day the element was last observed.

SITENAME: Name of the site as standardized by the Natural Heritage Program for internal use. Many sites do not have a name.

DIRECTIONS: How to find the site.

GENDESC: General description. A word picture of the site, describing the habitat.

ELEV, SIZE: Elevation and size of the occurrence.

EODATA: Information on number, size, condition, and other relevant information on the element occurrence.

COMMENTS: Additional information on the occurrence, the site, or sources of information.

OWNER: Name of owner of the site (some abbreviations used).

OWNERCOM: Comments on ownership. Usually the existence of additional owners.

SOURCE: Best source(s) of information on the element occurrence.

SAMPLE SITE TRACKING RECORD:
Boiling Springs Lake Natural Area
All recorded special elements.

```
SITE TRACKING RECORD 26 FEB 1991
ELCODE     ELEMENT                                 EO    GRANK   SRANK   LASTOBS  OWNER
           OCCURRENCE                              RANK

 BOILING SPRING LAKES--WETLAND COMPLEX                    NCBRUN            A
ABNYF07060 PICOIDES BOREALIS 073                         G2      S2      1977-
ABNYF07060 PICOIDES BOREALIS 300                         G2      S2      1980-    WEYERHAEUSER
NBMUS6Z0B0 SPHAGNUM FITZGERALDII 001                     G2G3    S2      1979-03
NBMUS6Z0B0 SPHAGNUM FITZGERALDII 003                     G2G3    S2      1981-04
PDASC021E0 ASCLEPIAS PEDICELLATA 015               B     G3G4    S1      1988-07  REEVES TELECO
PDDRO01010 DIONAEA MUSCIPULA 004                   A     G3      S3      1988-07  REEVES TELECO
PDDRO01010 DIONAEA MUSCIPULA 005                   B     G3      S3      1988-07  REEVES TELECO
PDDRO01010 DIONAEA MUSCIPULA 008                   E     G3      S3      1988-07  REEVES TELECO
PDDRO01010 DIONAEA MUSCIPULA 115                         G3      S3      1988-07  REEVES TELECO
PDPRI07010 LYSIMACHIA ASPERULIFOLIA 022            B     G2      S2      1988-07  REEVES TELECO
PMARA0E020 PELTANDRA SAGITTIFOLIA 019              AB    G3G4    S2      1988-07  REEVES TELECO
PMCYP0N010 RHYNCHOSPORA ALBA 015                         G5      S2      1988-07  REEVES TELECO
PDAST8P1H0 SOLIDAGO PULCHRA 007                    A     G1Q     S1      1987-09
PMXYR01030 XYRIS BREVIFOLIA 008                          G4G5    S1      1988-07  REEVES TELECO

14 Records Processed
```

SAMPLE ELEMENT OCCURRENCE SCORECARD:
Recorded sites of Rough-leaved Loosestrife with rating of the population.
(Sample does not include lower quality population sites.)

```
NORTH CAROLINA NATURAL HERITAGE PROGRAM NATURAL DIVERSITY SCORECARD
NUM RANK SITENAME/SURVEYSITE/LOCATION                     LAST OBS   SPEC STAT

 PDPRI07010  LYSIMACHIA ASPERULIFOLIA  ROUGH-LEAF LOOSESTRIFE  G2//S2
025         (CROATAN # 2 (CEDAR CREEK SWAMP):  ALONG       1985-07-24
            WHITE OAK ROAD (DIRT RD. BETWEEN SR 1124 & SR
            1141), 3.00 & 3.05 MILES W OF SR  1141 (HIBBS
            ROAD) (MOORE & TAGGART 1985).)
026         (CROATAN # 3 (LANDFILL SITE):  ALONG WHITE     1985-07-24
            OAK ROAD (DIRT RD. BETWEEN SR 1124 & SR
            1141), CA. 1.5 MILES W OF SR 1141     (HIBBS
            RD.) (MOORE & TAGGART 1985).)
028         (KINNEY CAMERON LAKE:  FROM SR 1328 X MUDDY    1985-06-09
            CR., GO S, TAKE  FIRST DIRT RD. TO RIGHT
            (SCOTLAND LANE), W CA. 1900 FT.,    TAKE
            TRAIL TO N (MOORE & CARTER 1985).)
033         ("SHRUB BOG 3 MILES S OF GRANTSBORO ALONG NC  1948-
            306" (GODFREY). )
010 A       ***GREEN SWAMP PRESERVE                        1990-11-10 NNL RHA TNC
013 A       ***MILITARY OCEAN TERMINAL SUNNY POINT         1988-06
021 A       ***FORT BRAGG MEGASITE                         1988-06-05
024 A       ***LEJEUNE LOOSESTRIFE SITE                    1988-09-07
018 AB      ***NC 133 LOOSESTRIFE SITE                     1988-05-23
014 B       (CRAWFORD LAKE:  4.75 MILES NNE OF OLD         1985-07-07
            HUNDRED, AT NE CORNER OF LAKE; ACCESS TO N
            SHORE VIA TRAIL OFF SR 1339 & SR 1609, PARK
            AT N SHORE & FOLLOW ECOTONE TO WEST (MOORE &
            CARTER).)
015 B       ***FORT BRAGG MEGASITE                         1988-05
020 B       (ROADSIDE OF NC 133, 0.9 MILE NE OF ITS        1988-06-10
            JUNCTION WITH FIFTY  LAKES DRIVE, ON NE SIDE
            OF HIGHWAY (BOYUM & TAYLOR 1988). )
022 B       ***BOILING SPRING LAKES--WETLAND COMPLEX       1988-07-07
041 B       ***CROATAN NATIONAL FOREST (GENERAL)           1990
006 BC      ***CREEK & CORRIDOR BELOW KINNEY CAMERON LAKE. 1985-06       RHA
030 BC      ***FORT BRAGG MEGASITE                         1988-
003 C       ***MILL POND BAY NATURAL AREA                  1986-06-24 RHA
004 C       (CROATAN # 1:  IN PINE PLANTATION, E SIDE OF   1985-06-10
            SR 1124, 0.7 MI. N OF RD. TO CAMP SAM HATCHER
            (MOORE & PEACOCK); "WIREGRASS SAVANNAH ABOUT
            7 MILES SW OF NEWPORT ON SR 1124" (WILBUR).)
008 C       ***BUSHY LAKE STATE NATURAL AREA               1985-07-14 RHA SPK
016 C       (CROATAN # 4 (SCHOOL SITE):  CA. 1 MILE N OF   1985-07-23
            OCEAN, ALONG A  SAND ROAD THAT GOES THROUGH A
            CAROLINA BAY, JUST N OF BAY ON SAND RIM
            (WILSON KRAUS 1985, MOORE ET AL. 1985).)
017 C       ***ORTON PLANTATION MACROSITE                  1989-06
027 C       (CROATAN # 5 (PRINGLE ROAD):  SOUTHWEST SIDE   1985-06-12
            OF PRINGLE ROAD, 1.2 MILES SOUTH OF ITS
            JUNCTION WITH MILLIS ROAD (MOORE ET AL.
            1985).)
029 C       ***FORT BRAGG MEGASITE                         1988-
034 C       (PAMLICO COMMUNITY COLLEGE: COLLEGE IS CA. 3   1989-10-24
            MILES N OF ARAPAHOE, PLANTS NEAR DITCH AT
            EDGE OF POCOSIN, TO NE OF COLLEGE (KRAUS
            [illegible]
```

Case Sample: Xeric Sandhill Scrub Natural Community

One of the 114 major types of natural communities inventoried and monitored by the N.C. Natural Heritage Program (see Appendix A for complete listing) -- the Xeric Sandhill Scrub community -- provides a second example of the process of determining protection priorities. This is one of the natural communities dominated by an open canopy of Longleaf Pine (Pinus palustris) and currently under study in the program's survey of remnant tracts of longleaf pine forests in North Carolina. The Xeric Sandhill Scrub community is the driest ecosystem in the Coastal Plain region. It was most extensive in the Sandhills and southern Coastal Plain region, but, along with most of the other longleaf pine-dominated ecosystems, has been vastly reduced in the amount of land coverage. Natural Heritage Program staff, its contracted biologists, and the North Carolina Vegetation Survey (of which the Natural Heritage Program is a member) have been searching for and examining the best remaining examples. This longleaf pine forest inventory has been partially funded by a grant from the N.C. Recreation and Natural Heritage Trust Fund.

One of the best examples was found in the Bonnie Doone Natural Area in Fayetteville. The 265-acre area contains an extensive, old-growth longleaf pine forest, which appears to be the largest stand of old-growth longleaf pine remaining in the Carolinas. It was first discovered in 1989 by Natural Heritage staff biologists and contract biologist Jay Carter. Fortunately, the discovery took place just in time to influence critical management decisions for the area, and served to help reroute highway and electrical transmission plans, to stop consideration for pine straw raking, and to help design forest management and ecological burning plans.

The owners of all three tracts in the Bonnie Doone Natural Area have entered voluntary conservation agreements to register their properties as North Carolina Natural Heritage Areas. The largest section is owned by the Fayetteville Public Works Commission, as part of its watershed for the Bonnie Doone Lake water supply. Other sections are owned by private individuals.

The following pages present samples of the components of the program's system for evaluating and ranking the Xeric Sandhills Schrub community and determining site protection priority. The Bonnie Doone tract is identified as one of the best examples and thus is a high priority natural area,. Also included are samples of the program's description and statement of significance for the natural area, and a copy of one of the landowners' registry protection agreements.

SAMPLE ELEMENT DESCRIPTION: XERIC SANDHILL SCRUB
(from Schafale and Weakley, 1990)

March 1990

XERIC SANDHILL SCRUB

Sites: Coarse deep sands of ridge and swale systems, relict aeolian sand deposits, Carolina bay rims, and sandy uplands.

Soils: Sandy, infertile soils. Typical series are Lakeland (Typic Quartzipsamment), Kureb (Spodic Quartzipsamment), Baymeade (Arenic Hapludult), Candor (Arenic Paleudult), and Centenary (Entic Haplohumod).

Hydrology: Terrestrial, xeric, excessively drained. These communities are the driest in the Coastal Plain.

Vegetation: Open canopy of *Pinus palustris*, with open to dense understory of *Quercus laevis*. Occasional *Quercus margarettae*, *Sassafras albidum*, and *Diospyros virginiana* may occur. A sparse low shrub layer consisting primarily of *Gaylussacia dumosa* and *Toxicodendron pubescens* (*Rhus toxicodendron*) is sometimes present. The sparse to moderately dense herb layer consists of species such as *Aristida stricta*, *Stipulicida setacea*, *Minuartia* (*Arenaria*) *caroliniana*, *Cnidoscolus stimulosus*, *Selaginella arenicola*, *Euphorbia ipecacuanhae*, *Schizachyrium* (*Andropogon*) *scoparium*, *Opuntia compressa*, *Polygonella polygama*, and *Tephrosia virginiana*. Cryptogams such as *Dicranum condensatum* and *Cladonia* spp. may also be important.

Dynamics: Although the least productive, most barren sites produce too little fuel to sustain frequent fires, most Xeric Sandhill Scrub communities naturally experienced frequent low intensity surface fires. The peak natural fire season is believed to be in early summer, as in Florida (Robbins and Myers 1989). Natural fires may, however, occur at any time of year, and variation in season as well as predominant season, may be important. With frequent fire the scrub oak understory is sparse, with a few trees growing large enough to withstand fire and the rest existing as sprouts that are killed back by the fires. In the absence of fire the oaks become denser and larger, sometimes forming a closed or nearly closed subcanopy. The herb layer is reduced in density and diversity. The loss of grass and the presence of oak leaf litter reduces the effectiveness and possibility of surface fire. The rate at which oaks expand depends on the dryness of the site. The driest sites may remain permanently open and barren.

It is not certain how the natural population structure and dynamics of longleaf pine in these communities compares with that described by Platt, Evans, and Rathbun (1988). Reproduction is probably rarer and may be more irregular. Nevertheless, it is likely that the trees are also naturally uneven-aged and long lived, though they are often small.

Range: Most extensive in the Sandhills region and southern Coastal Plain, but also occurs on escarpments and sand ridge areas in other parts of the Coastal Plain.

Associations: Grades into Pine/Scrub Oak Sandhill, Coastal Fringe Sandhill, or Mesic Pine Flatwoods on less xeric sites. May grade directly to Pine Savanna, Wet Pine Flatwoods, Pond Pine Woodland, or Streamhead Pocosin in more steeply sloping areas. May contain small Sandhill Seep, Small Depression Pocosin, Vernal Pool, or Small Depression Pond commuities.

Distinguishing Features: Xeric Sandhill Scrub communities are distinguished from Pine/Scrub Oak Sandhill and Coastal Fringe Sandhill by their lower diversity and by the absence of scrub oaks other than *Q. laevis* and occasionally *Q. margarettae*.

Variation: Four variants are recognized:
1. Sand Barren Variant, on the most excessively drained sands which support only sparse woody and herbaceous vegetation. These occur primarily on aeolian sand deposits and Carolina bay rims. This is the most distinctive variant and probably will warrant separation into its own type when studied further.

2. Sandhills Variant, on upland ridgetops and upper slopes in the Sandhills region. They are less barren and may approach Pine/Scrub Oak Sandhill in density and herb diversity.

3. Middle Coastal Plain Variant, on low sand ridges in the middle Coastal Plain. Similar to the Sandhills variant in density but with floristic differences.

4. Outer Coastal Plain Variant, on sandhills near the coast but too xeric to support Coastal Fringe Sandhill. Often fairly barren but less so than the sand barren variant and apparently floristically distinct from it.

Comments: These communities occupy the xeric end of a moisture and fertility gradient in longleaf pine-dominated sites. Weaver (1969) suggested that nutrients rather than moisture were the most important factor in determining the absence of *Q. marilandica*. The same may well apply to other oaks as well as various herb species. There is apparently a substantial range of productivity within this type as presently defined, and further splitting may be warranted. The question of productivity is complicated, however, by the effects of past disturbance to the vegetation and soil.

These communities were originally widespread. Because of the poor soils, many are still left in recognizable condition, but most have been severely degraded by lack of fire and by removal of trees. Longleaf pine is often very slow to regenerate after cutting on these sites. High quality examples are very rare.

Rare Plant Species: Vascular -- *Amsonia ciliata, Asclepias tomentosa, Chrysoma pauciflosculosa, Lachnocaulon beyrichianum, Lechea torreyi, Orbexilum lupinellum, Pediomelum canescens, Phaseolus sinuatus, Pyxidanthera barbulata* var. *brevifolia, Rhus michauxii, Stylisma pickeringii* var. *pickeringii*.

Synonyms:
Sandhill, Barren (general usage).
SAF 71 and 72: Longleaf Pine-Scrub Oak and Southern Scrub Oak (in part).

Examples:
Carolina Beach State Park (Taggart and Dickerson 1980)
421 Sand Ridge (Leonard and Davis 1981).
Extensive areas exist on the Sandhills Game Land and Fort Bragg.

References:

Burk, C.J. 1959. A floristic study of a sandhill area on the North Carolina Coastal Plain. J. Elisha Mitchell Sci. Soc. 75: 135-138.

Carter, J.H., and H.E. LeGrand, Jr. 1989. Inventory of the natural areas of Moore County. N.C. Natural Heritage Program.

Garren, K.H. 1943. Effects of fire on vegetation of the southeastern United States. Bot. Rev. 9: 617-645.

Leonard, S.W., and R.J. Davis. 1981. Natural areas inventory of Pender County, North Carolina. N.C. Coastal Energy Impact Program Report No. 11.

North Carolina Vegetation Survey. 1989. Unpublished Sandhills Region vegetation data.

Platt, W.J., G.W. Evans, and S. L. Rathbun. 1988. The population dynamics of a long-lived conifer (*Pinus palustris*). American Naturalist 13: 491-525.

Radford, A.E., D.K.S. Otte, T.A. Atkinson, T.D. Nifong. 1979. Vascular plant communities of North Carolina. Report to North Carolina Natural Heritage Program.

R.E. Schneider. 1990. Inventory of longleaf pine communities. Report to N.C. Natural Heritage Program.

Taggart, J., and T. Dickerson. 1980. Carolina Beach State Park Natural Area. Report to North Carolina Division of Parks and Recreation.

Weaver, T.H. 1969. Gradients in the Carolina Fall-line Sandhills: environment, vegetation, and comparative ecology of the oaks. Ph.D. dissertation, Duke Univ.

Wells, B.W., and I.V. Shunk. 1931. The vegetation and habitat factors of the coarser sands of the North Carolina Coastal Plain: An ecological study. Ecol. Monogr. 1: 466-520.

Sample Plant Communities:
Pinus palustris.
P. palustris/*Quercus laevis*.
P. palustris/*Q. laevis*/*A. stricta*-*Andropogon* spp.
P. palustris/*Q. laevis*/*Gaylussacia dumosa*/*Aristida stricta*.
P. palustris/*Q. laevis*/*Stipulicida setacea*-*Polygonella polygama*/*Selaginella arenicola*.
Q. laevis/*Cladonia* spp..
Q. laevis/*Aristida stricta*.
Q. laevis/*G. dumosa*/*A. stricta*.
Q. laevis/*Stipulicida setacea*-*Polygonella polygama*/*Selaginella arenicola*.

SAMPLE ELEMENT OCCURRENCE RECORD: XERIC SANDHILL SCRUB NATURAL COMMUNITY

```
                         Element Occurrence Record
                           XERIC SANDHILL SCRUB
                                 02/22/91

Identifiers:
                   Elcode   EO# State:
EOCODE:      CCTER00395*023*NC         IDENT: Y            FONUM:
SCOMNAME:
 ELEMENT RANKS:  GRANK:  G5      NRANK:          SRANK:  S4
                                                                COUNTY-
Locators:                                                       CODE:
NATION:      US       SITECODE:  S.USNCHP*933                   NCCUMB

SITENAME:    BONNIE DOONE NATURAL AREA
SURVEYSITE:

PRECISION:   M
                      QUAD     MARG DOT  TEN
QUADNAME:             CODE:    NUM: NUM: TEN:
FAYETTEVILLE          3507818

        LAT:   350645N       S: 350625N
        LONG:  0785657W      N: 350705N
                             E: 0785635W
                             W: 0785720W

DIRECTIONS:  BONNIE DOONE NATURAL AREA. ON THE WEST SIDE OF BONNIE DOONE
             LAKE, ABOUT 1/4 MILE EAST OF NC 24 AND NORTH OF SR 1437,
             JUST SOUTH OF THE FORT BRAGG SOUTHERN BOUNDARY.

WATERSHED:  03030004

Status:
SURVEYDATE:  1990-06-13     LASTOBS:  1990-06-13     FIRSTOBS:   1989
EORANK:      A           EORANKDATE:  90-06-13
EORANKCOM:   HIGHLY SIGNIFICANT FOR OLD-GROWTH PINE CANOPY, DESPITE FIRE
EXCLUSION.
EODATA:      HIGHLY SIGNIFICANT AS ONE OF FEW OLD-GROWTH LONGLEAF PINE
             STANDS, SHOWING NATURAL CANOPY STRUCTURE. MANY TREES EXCEED
             20" DIA. LONG FIRE SUPPRESSION HAS ALLOWED PROLIFERATION OF
             OAKS AND SUPPRESSION OF THE GROUND COVER. MANY BUT NOT ALL
             BIG TREES HAVE TURPENTINE BOX SCARS.


Description:
GENDESC:     SERIES OF GENTLY SLOPING, SANDY RIDGES. NATURALLY PATCHY
             OPEN CANOPY OF OLD-GROWTH PINUS PALUSTRIS. DENSE MID-STORY
             OF QUERCUS LAEVIS, WITH SOME DIOSPYROS VIRGINIANA, NYSSA
             SYLVATICA, AND SASSAFRAS ALBIDUM. GROUND COVER NOW GENERALLY
             VERY SPARSE, WITH ARISTIDA STRICTA, SCHIZACHYRIUM SCOPARIUM,
             GAYLUSSACIA DUMOSA, AND CLADONIA SPP. MOST COMMON.

ELEV:        200         SIZE:  175

Protection:
   MACODE:     MANAME:                                      CONTAINED:


MORELAND:        MOREPROT:        MOREMGMT:        TNCINVOLVE:
```

MGMTCOM: NEEDS FIRE RESTORATION AND REGULAR PRESCRIBED BURNING.

PROTCOM: REGISTERED

Ownership:
OWNER: FAYETTEVILLE PUBLIC WORKS COMMISSION   OWNERINFO: Y
OWNERCOM:

General Comments:
COMMENTS: TWO 1/10 PLOTS WERE SAMPLED BY THE NORTH CAROLINA VEGETATION SURVEY IN 1990.

Optional Fields:
GEOMORPH: CCS
GEOL: KM
SPECSTAT: RHA
SURVEY: I
SOIL: CANDOR - TYPIC QUARTZIPSAMMENT

ELEMENTSPP: PYXIDANTHERA BARBULATA VAR BREVIFOLIA

Documentation and Maintenance:
DATASENS: BOUNDARIES: PHOTOS:
BESTSOURCE: M.P. SCHAFALE AND J.H. MOORE, 1990 REGISTRY WRITEUP AND SITE VISITS.

TRANSCRIBR: 90-09-10 MPS   SOURCECODE:
MAPPER: 90-09-10 MPS
DATARESP: NCHP
UPDATE: 90-09-10 MPS

SAMPLE NATURAL DIVERSITY SCORECARD: XERIC SANDHILL SCRUB COMMUNITY OCCURRENCES

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NORTH CAROLINA NATURAL HERITAGE PROGRAM NATURAL DIVERSITY SCORECARD
NUM RANK SITENAME/SURVEYSITE/LOCATION                        LAST OBS    SPEC STAT


 CCTER00395  XERIC SANDHILL SCRUB     G5//S4
016        ***WEYMOUTH WOODS STATE NATURAL AREA                          RHA
022        ***CATHERINE LAKE POWERLINE FLATWOODS             1989-07-29
014 A      ***PATSY POND COMPLEX                             1988-11-27  RHA SIB
023 A      ***BONNIE DOONE NATURAL AREA                      1990-06-13  RHA
021 A?     ***CORBETT'S SANDHILLS                            1989-07-06
006 AB     ***JONES LAKE STATE PARK                          1990-06-21  RHA SPK
011 AB     ***JONES LAKE STATE PARK                          1990-06-22  RHA SPK
019 AB     ***MCCAIN NATURAL AREAS                           1988-11-28
024 AB     ***OVERHILLS ESTATE                               1990-6-12
005 B      ***STILL LANE SEEPAGE SLOPES                      1986-03     RHA
008 B      ***COTTON HEAD SAND RIDGE                         1987-03-18
020 B      ***CAROLINA BEACH STATE PARK                      1989-02-03  SPK
015 BC     (EAST BOUNDARY OF SINGLETARY LAKE STATE PARK,     1987-11-08  SPK
           BEHIND THE      GROUP CAMPS. )
001 C      ***421 SAND RIDGE                                 1985-03
002 C      ***421 SAND RIDGE                                 1985-03
003 C      ***SINGLETARY LAKE STATE PARK                     1987-05-01  RHA SPK
007 C      ***YUCCA SAND RIDGE                               1989-11-26
009 C      ***SUZY HILL NATURAL AREA                         1987-03-18
010 C      ***MILLSTONE CREEK                                1988-10-17  RHA
012 C      ***BONES FORK PINE AND SHRUB COMMUNITY            1990-06-02  RHA
013 C      ***JONES LAKE STATE PARK                          1990-07-29  RHA SPK
017 C      ***CAROLINA BEACH STATE PARK                      1988-01-17  RHA SPK
025 C      ***GREEN POND                                     1989-07-02
026 C      ***BIG SANDY RIDGE AND SWAMP                      1990-08-30
004 CD     ***BUSHY LAKE STATE NATURAL AREA                  1980-       RHA SPK

25 Records Processed
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SAMPLE SITE BASIC RECORD: BONNIE DOONE NATURAL AREA

```
                              Site Basic Record
                          BONNIE DOONE NATURAL AREA

  Identifiers:
                 ID:          COUNTER:
  SITECODE:      S.USNCHP     * 933
  SITENAME:      BONNIE DOONE NATURAL AREA

  SITE.CLASS:  SS                    OLDCODE:

  SITEALIAS:

                MCSITECODE:       MCSITENAME:

                MGSITECODE:       MGSITENAME:

  Locators:
  NATION: US           STATE: NC             SITERESP: NC
  COUNTYCODE: COUNTYNAME:                  QUADNAME:               QUADCODE:
    NCCUMB    Cumberland                   FAYETTEVILLE            3507818

  LOCALJURIS:

  TOWNRANGE:                 SECTION:       MERIDIAN:
  TRSCOM:

  LAT:          350645N        LONG: 0785657W
  S:            350625N     N: 350705N         E: 0785635W          W: 0785720W

  DIRECTIONS: ON WEST SIDE OF BONNIE DOONE LAKE, EAST OF NC 24 AND NORTH
              OF SR 1437, IN SOUTHWESTERN FAYETTEVILLE.

  Site Description/Design:
  SITEDESC:   DRY SANDY RIDGES AND MUCKY DRAINS. XERIC SANDHILL SCRUB
              COMMUNITY WITH OLD-GROWTH CANOPY ON UPLANDS; ONE OF FEW SUCH
              SITES REMAINING. POPULATION OF WELLS' PIXIE MOSS ON ONE
              RIDGE.

  SITEMAP:        MAPDATE:
  DESIGNER:
  BOUNDJUST:

  PRISECACRE: 265.00        PRIMEACRES:                SITETLACRES:
  SITECOM:

  Site Significance:
  OLDRATING:
  RATINGCOM:      HIGH QUALITY NATURAL COMMUNITIES, RARE PLANT SPECIES

  BIODIVSIG:      B3
  BIODIVCOM:      A RANKED XERIC SANDHILL SCRUB

  OTHERVALEUS:    V2
  OTHERVALUCOM:   SCIENTIFIC, WATERSHED PROTECTION

  PROTURGENCY:    P4
```

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PROTURGCOM:     REGISTERED

MGMTURGENCY:    M2
MGMTURGCOM:     NEEDS RESTORATION OF FIRE AND CONTROL OF HARDWOOD
                UNDERSTORY.

Real Estate and Protection:
CONSINTENT: REGISTRY

NUMTRACTS:                ESTPROTCOST:

             DESIG.CODE:  DESIGNATION:
             RHA          REGISTERED NATURAL HERITAGE AREA

PROTCOM:     REGISTERED

Stewardship:
LANDUSECOM:  USED AS WATERSHED FOR FAYETTEVILLE WATER SUPPLY RESERVOIR.

NATHAZCOM:

EXOTICCOM:

OFFSITE:     HIGHWAY CONSTRUCTION PROPOSED ON NORTH BOUNDARY WILL ISOLATE
             SITE FROM WOODLANDS OF ADJACENT FORT BRAGG.

INFONEEDS:

MGMTNEEDS:

MACOM:

Optional Fields:
SBR.OPT1:    I

SBR.OPT2:    B

SBR.OPT3:    1990

SBR.OPT4:    CCS

SBR.OPT5:

Element Occurrence Information:
ELCODE:     SNAME:                      SCOMNAME:                    GRANK: SRANK
CCTER00395 XERIC SANDHILL SCRUB                                      G5     S4

Record Maintenance:
LEADRESP:               NCHP
```

GUIDE TO OUTPUT: NATURAL HERITAGE PROGRAM NATURAL AREAS DATABASE

The Natural Areas Database contains information on areas or sites identified by the program as containing significant ecological features to the extent that we believe their preservation to be important to the overall goal of preserving the state's natural heritage. Collectively, these sites comprise the program's "Priority List"--a working guide directing our protection efforts.

Each record in this database is an "abstract" that profiles one significant natural area. The output that you have received is organized as follows:

First, the name of the site is given (without a field identifier). This name is standardized for use in other databases also.

COUNTYNAME: Abbreviated name of county: the letters "NC" followed by the first 4 letters of the county name.

QUADNAME: USGS topographic quad map on which the site occurs.

DIRECTIONS: A concise description of location of the site and how to access it (unless it is felt that the natural values of the site are so sensitve that location should be kept confidential).

SITEDESC: A brief description of the signficant features of the site, including names of rare or endangered species and their state and/or federal status.

SIZE: Approximate number of acres (rounded to whole numbers).

PRIORITY: Whether the Natural Heritage Program considers the site of be of significance on a national (A), state (B), or regional (i.e., within the state) (C) scale.

RANKCOMM: Additional comments elaborating on why the area was included in the database in the first place: its reasons for significance.

PROTSTAT: Present protection status for the site. This is where indication will be given if the site is on the North Carolina Registry of Natural Heritage Areas (RHA), is a Dedicated State Nature Preserve (DED), is an Estuarine Sanctuary (ESN), is covered by a Conservation Easement to a private organization such as The Nature Conservancy (EAN), etc.

SAMPLE TRACT BASIC RECORD: ONE OF THREE TRACTS IN BONNIE DOONE NATURAL AREA FAYETTEVILLE PUBLIC WORKS OWNERSHIP

```
                            Tract Basic Record
                         FAYETTEVILLE PUBLIC WORKS

Identifiers:
             ID:         COUNTER:
TRACTCODE:   T.USNCHP    * 959

TRACTNAME:   FAYETTEVILLE PUBLIC WORKS
                                         PREVTRACTCD:
                                         OLDSTRACODE:
             SITECODE:         SITENAME:
             S.USNCHP*933      BONNIE DOONE NATURAL AREA

MACODE:                         MANAME:

Locators:
NATION:      US          STATE: NC
COUNTYCODE:  NCCUMB            LOCALJURIS:
COUNTYNAME:  Cumberland
TAXMAP:

Tract Description:
TRACTDESC:   BUFFER LAND FOR CITY WATER SUPPLY RESERVOIR.

EHA.APPROVAL:
HAZARDCOM:

BILDIMP:
BILDIMPCOM:

Current Ownership:
OWNERID:
OWNERTYPE:
OWNER.ADDRESS:

BESTCONTAC:                                                .BESTCONNUM:

Status data:
TRACTACRES:                   TLACRES:
PRISECACRE:                PRIMEACRES:                     CS:     IS:
CSISCOM:

FMV:         $                FMVSOURCE:

TRACTCOM:

Element Occurrence Information:
EOCODE:          SNAME:                              GRANK: SRANK: EORANK:


Optional Fields:
TBR.OPT1:

TBR.OPT2:    LOCAL

TBR.OPT3:    LOCAL/NHP

TBR.OPT4:    PHA
```

SAMPLE NATURAL AREA DESCRIPTION/STATEMENT OF SIGNIFICANCE/PROTECTION RECOMMENDATION

BONNIE DOONE NATURAL AREA[1]

Location: Cumberland County, North Carolina; Fayetteville 7.5 min. USGS topographic quad map; on the west side of Bonnie Doone Lake, just south of Fort Bragg, about 1/4 mile east of NC 24, and north of SR 1437. (see maps 1 and 2). Area in the Coastal Plain Geomorphic Province, Cape Fear Section, Sand Hills Region. Coordinates: 35 06′ 45" N 78 57′ 00" W. Elevation: 160-230 feet.

Approximate Acreage: Total approximately 265 acres; Public Works Commission 195, Shaw 52, Keith 18.

Ownership and Administration: Public Works Commission of the City of Fayetteville, Mrs. Ruth Keith, and the Shaw family.

Land Use: The area is presently used as protected watershed land for Bonnie Doone Lake, a city water supply reservoir. No timber appears to have been cut within the Public Works tract since it was acquired nearly 50 years ago. In the past the area was used for production of naval stores. Many of the oldest longleaf pines bear the scars of the boxes cut into them to collect pitch. A few small tracts were cultivated years ago, while others were used for pasture.

A residential area is located on the east side of the lake. Fort Bragg Military Reservation borders the natural area on the north. Scattered residences adjoin the site on the south.

Significance:
1. Occurrence of an extensive, old-growth longleaf pine community. The forest contains numerous old, flat-topped pines and appears to show the natural uneven distribution of canopy trees. Many of these trees may be over 200 years in age and some may be close to 400 years old. The site offers a rare opportunity to observe the natural population structure of longleaf pine.

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[1] Primary data gathered by Julie Moore and Mike Schafale, N.C. Natural Heritage Program, Division of Parks and Recreation, N.C. Department of Natural Resources and Community Development, P.O. Box 27687, Raleigh, NC 27611. This compilation by Mike Schafale and Julie Moore April 1990. [3507818]

2. A population of Wells' pixie-moss (Pyxidanthera barbulata var. brevifolia), a North Carolina endangered plant and a candidate for Federal listing as a threatened species, occurs near the north side of the site.

3. Although the communities suffer from long fire exclusion, they offer an excellent opportunity for restoration of the natural community structure and dynamics. If restored, the old-growth forest should offer good breeding habitat for the endangered Red-cockaded Woodpecker, which currently nests on neighboring Fort Bragg and, until very recently, nested in living pines within the natural area. The natural area provides valuable foraging habitat for the Red-cockaded Woodpecker colonies on adjacent public lands.

Description:

The topography of the Bonnie Doone Natural Area is typical of much of the Sandhills Region, consisting of a series of broad, gently sloping, sandy ridgetops, separated by steeper slopes from narrow, wet, ravines. The sandy soils of the ridgetops, mostly of the Candor series, are coarse, excessively-drained, naturally acidic, and low in nutrient- and water-holding capacity.

On the dry ridgetops, longleaf pine (Pinus palustris) is the only canopy tree in most of this community. The pine canopy is generally open, but has a patchy distribution. Although ages have not been determined, the pattern of mature trees appears to fit that described by Platt, et al. (1988) for an old-growth longleaf pine forest in Georgia. That study found that trees of all ages occurred on the site, but that most trees were in groves of the same age. The oldest trees, lone survivors of old clumps, were more randomly distributed. Some trees there exceeded 300 years old. The almost universal logging of longleaf pine communities has made old trees and natural population structure extremely rare.

Beneath the canopy, scrubby trees adapted to dry, infertile conditions, primarily turkey oak (Quercus laevis), form a dense understory. Other trees present in small numbers include persimmon (Diospyros virginiana), sassafras (Sassafras albidum), sand hickory (Carya pallida), and black gum (Nyssa sylvatica). Beneath the trees is a sparse layer of low shrubs and herbs. The most abundant species are wiregrass (Aristida stricta), little bluestem (Schizachyrium scoparium), dwarf huckleberry (Gaylussacia dumosa), and low-bush blueberry (Vaccinium tenellum). Other common species include trailing arbutus (Epigaea repens), tread-softly (Cnidoscolus stimulosus), and bracken fern (Pteridium aquilinum). On the northern ridge, the rare Wells' pixie-moss (Pixydanthera barbulata var. brevifolia) occurs in an open area. In the driest, most open areas, only lichens (Cladonia spp.) are abundant. The upland natural community is classified as Xeric Sandhill Scrub (Schafale and Weakley 1990).

The Sandhills region under natural conditions experienced frequent fire, and the communities are adapted to and dependent on burning. Fire has been excluded from most of the Bonnie Doone area for many decades. While the pine canopy remains healthy, the other layers of the community have changed because of lack of burning. The scrub oak understory, once consisting of low, shrub-like sprouts and only a few patches of large trees, has become dense and continuous. The grassy herb layer, once dense and continuous, has been suppressed by the shade of the scrub oaks and smothered beneath the buildup of litter. The lack of fire has also reduced reproduction of the longleaf pines. While Xeric Sandhill Scrub communities are naturally fairly low in number of species, other herb species not seen here were undoubtedly present when fire was frequent. Many of these plant species may return if natural community structure and fire regime are restored.

The ravine bottoms and lower slopes, kept wet by small streams and seepage from the underlying sand, support a community intermediate between Streamhead Pocosin and Coastal Plain Small Stream Swamp (Blackwater Subtype). The somewhat open canopy is a mixture of pond pine (Pinus serotina), loblolly pine (Pinus taeda), tulip-poplar (Liriodendron tulipifera), sweetgum (Liquidambar styraciflua), and swamp black gum (Nyssa biflora). Understory trees include red bay (Persea borbonia), sweet-bay (Magnolia virginiana), American holly (Ilex opaca), and red maple (Acer rubrum). The shrub layer is fairly dense in most places. It is dominated by characteristic pocosin species such as fetter-bush (Lyonia lucida), gallberry (Ilex glabra), sweet gallberry (Ilex coriacea), and titi (Cyrilla racemiflora). Laurel-leaf greenbriar (Smilax laurifolia) is common. There are few herbs beneath the dense shrubs, but in openings, both chain ferns (Woodwardia virginica, Woodwardia areolata) occur. Sphagnum moss is also common.

Like the Xeric Sandhill Scrub, the Streamhead Pocosin was subject to periodic fire in the past, though its wetness probably caused it to burn less frequently. The abundance of hardwood trees and loblolly pine in the canopy is probably the result of long absence of fire.

On the edge, or ecotone, between the Xeric Sandhill Scrub and Streamhead Pocosin, is a zone of shorter shrubs such as dangleberry (Gaylussacia frondosa), gallberry (Ilex glabra), and cane (Arudinaria tecta). Under frequent fire this ecotone is a zone of high plant diversity, where plants of both communities mix, and where a number of specialized species occur. This is the habitat of many of the rare plant species in the Sandhills. In the absence of fire, the ecotone has become dominated by the shrubs, and most of the characteristic herbs can not be found. There is also evidence, in the form of longleaf pines among the dense shrubs near the edge of the pocosin, that the ecotone and the pocosin vegetation below it have moved uphill. The pines became established when the forest floor was more open and sunny.

In summary, the most significant aspect, ecologically, of the Bonnie Doone Natural Area, is the Xeric Sandhill Scrub community with its old-growth longleaf pine canopy. While past turpentine operations have scarred many of the older trees, the lack of logging has allowed the survival of many old trees and of aspects of the natural population structure. The long absence of fire has allow changes in other parts of the community structure which detract from its naturalness; however, the site has high potential for restoration. If protected as a natural area, it offers excellent opportunities for research, education, and appreciation.

Dangers to Integrity: Continued lack of fire will ultimately lead to degradation of the communities. Herbs will continue to disappear. Longleaf pine regeneration will become more sparse and will be unable to replace the canopy trees when they eventually die. The decomposition of the oak leaf litter will lead to changes in the soil which will favor invasion by hardwood species.

Timber harvest, pine straw raking, and extensive road construction would also be threats to the integrity of the communities. Timber harvest would remove old trees and destroy the natural population structure of the canopy. Pine straw raking would damage or destroy what remains of the herb layer. Road construction would directly destroy both canopy and lower layers where the roads were constructed. It would also cause indirect damage in the form of erosion, sedimentation, and increased traffic (legal and illegal) throughout the area.

Protection Status: The area is protected by the Public Works Commission as a watershed for the water supply reservoir. It is closed to the public.

Protection and Management Recommendations: The Bonnie Doone Natural Area should be added to the North Carolina Registry of Natural Heritage Areas. Management should be directed toward restoring and maintaining the natural character of the area.

Exclusion of fire for decades has resulted in serious encroachment of scrub oaks and other hardwoods in the longleaf pine forest canopy and subcanopy, with a corresponding suppression of the grassy herb layer and pine reproduction. To restore the open character of the longleaf pine forest it is necessary to greatly reduce the dense scrub oak understory which shades the ground. Because oaks are a natural part of the community, and because the mast they produce is important for some wildlife, it is not necessary or desirable to completely eradicate them, but their abundance must be reduced and natural controls restored. Prescribed burning, particularly during the growing season, will keep scrub oak growth under control, effectively pruning back oaks to the shrub stage. However, before initiating a routine burning program it is desirable to remove the dense scrub oak thicket growing beneath the towering pines. Several approaches are possible, but the best method for restoration of natural conditions is not known. By dividing the natural area into zones or plots using existing firebreaks and roads, it is possible to try different techniques or combinations of methods to determine effectiveness and expense.

One approach is cutting of hardwoods for firewood, or cutting simply to remove the stems over two inches in diameter. Selected old hardwoods should be left for acorn production. Twigs and branches left should not be piled up, as this creates hot spots when fire is introduced. Brush left from cutting can be chipped and chips scattered and allowed to dry, or brush can be left throughout an area to dry and provide coarse fuel when the site is burned. Cutting should be supervised to prevent damage to pines and disturbance of the soil by vehicles.

Velpar, an herbicide used widely used for scrub oak control, may be effective if used cautiously. A 6 foot by 6 foot grid hand application will kill oaks and hardwoods but not pines. The standing dead trees are gradually removed by fire. Aerial application of Velpar, as is sometimes done, is costly and frequently results in death of not only scrub oaks but also of all other hardwoods, including persimmons, dogwoods, blueberries, and huckleberries which are important wildlife foods. Young pines can also be killed by excessive application. The effect of Velpar on herbs is not well known, but excessive application of Velpar has been observed to kill wiregrass. Therefore, only careful hand application in part of the natural area is acceptable.

After scrub oaks are cut or killed, fire needs to be introduced immediately, because, no matter what the treatment, resprouting will occur.

In compartments where hardwoods are not being cut or treated with Velpar, a burning program should be initiated as soon as possible. Although many oaks may survive the first burn, repeated growing season burns will eliminate most of them.

The first prescribed burn on any site in the natural area should be a winter burn to reduce the high fuel loads that have built in the decades of fire exclusion. Winter or dormant season burns do not control hardwoods as effectively as growing season burn, but they do reduce fuels to safer levels. The first winter burn should be followed by a spring or growing season burn. For the first few years, until hardwood growth is opened up, burns should be carried out every growing season. The goal should be to open the hardwood understory sufficiently so that when the next major longleaf pine seed fall occurs (in 5 to 7 years) the seed will reach the soil, germinate, and grow.

After the scrub oak understory is reduced, by whatever method, burns will be needed every other growing season to maintain the open conditions that allow pine and herbaceous growth. These burns will also keep fuel loads low and reduce the risk of wildfires.

Of great concern in the early phases of hardwood control, both in cutting and in burning, is the care that must be taken to make sure that the old longleaf pines are not damaged or stressed. The mounds of litter built up at the bases of the trees would burn hot and continue to smolder, injuring the base of the tree. In addition, the fine tree roots have grown up into the decaying organic matter at the base of the mounds. It will be necessary to rake the straw and litter from around the base of the old trees before burning the first time. Doing this raking well before the fire should allow the tree time to recover from the stress of losing the fine roots within the litter. Raking is particularly important for Red-cockaded Woodpecker cavity trees and trees with turpentine faces, as the accumulated resin can cause fire to spread up the tree. If hardwoods are cut, remaining branches and tree crowns should not be stacked around pine trees, where they would increase fire intensity.

In the past the streams draining eastward and southeastward into the lake have had firebreaks plowed along the margins to exclude fire. Research now indicates that it is important for wildlife and numerous rare plant species that these wetland margins and the wetlands themselves be burned when the adjacent uplands are burned.

Many old roads, trails, and firebreaks cross and crisscross the natural area. Soil disturbances can be kept to a minimum by using existing firebreaks and raking or shallowly disking them. The edge of the lake should also be kept open by burning to stimulate plants such as the pitcher plants and keep shrub growth low at the water's edge.

At this time none of the area within the identified natural area is suitable for pine straw raking due to scrub oak and hardwood growth. All of the fuel provided by pine needles is vitally important to a prescribed burning program, especially since the herb layer has been so reduced by shading. Without fuel, hardwood control by fire is impossible. Until the long term and short term impacts of pine straw harvest have been determined, it is recommended that pine straw raking not be allowed within the natural area. This recommended policy can be reviewed and ammended when the herb layer has recovered, when pine reproduction is sufficient to provide a regenerating pine stand, and when hardwood and scrub oak growth can be controlled by a regular growing season burning program.

Recognition by Other Agencies: None known.

Data Sources:
Julie Moore and Mike Schafale, Natural Heritage Program
Jay Carter, Consulting Biologist, Southern Pines.

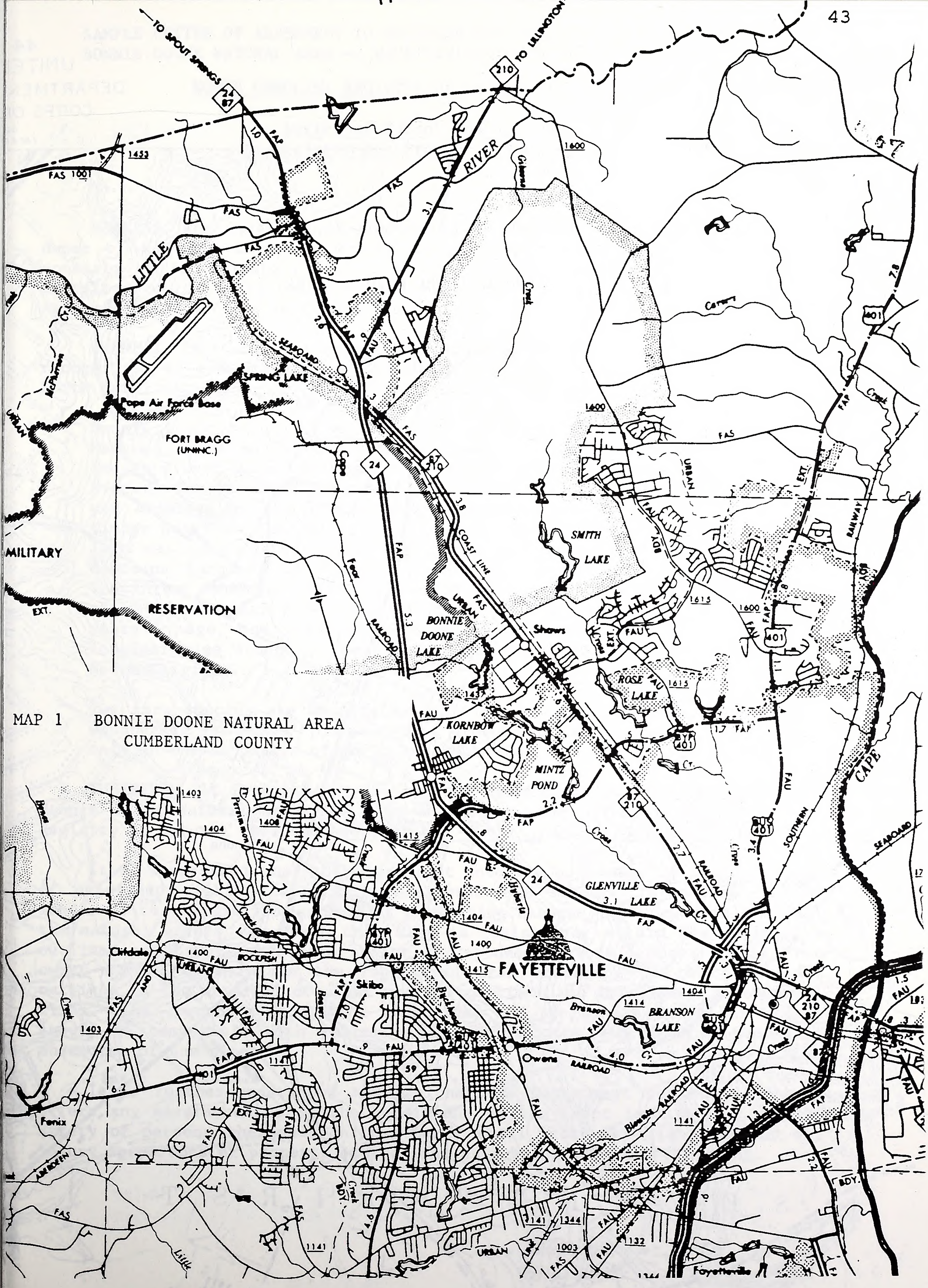
Scientific References and Unpublished Reports:

Platt, W.J., G.W. Evans, and S.L. Rathbun. 1988. The population dynamics of a long-lived conifer (*Pinus palustris*). American Naturalist 13: 491-525.

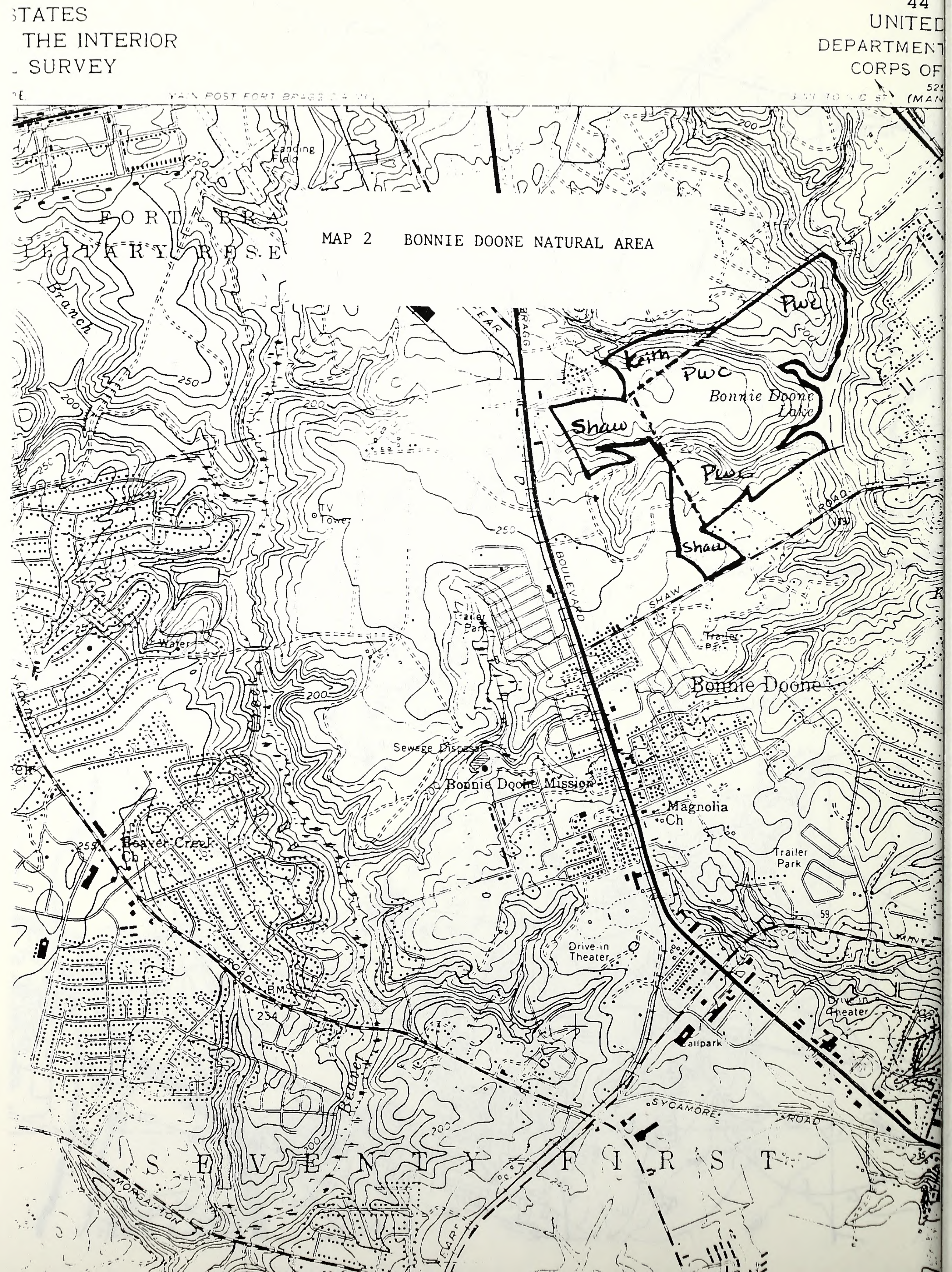
Schafale, M.P. and A.S. Weakley. 1990. Classification of the Natural Communities of North Carolina, Third Approximation. N.C. Natural Heritage Program, Raleigh, N.C.

Table 1: Endangered and Rare Plant Species in the Bonnie Doone Natural Area.

		Status			
Scientific Name	Common Name	NC[1]	US[2]	Global[3]	Habitat
Pixydanthera barbulata var. brevifolia	Sandhills pixie-moss	E	3B	G3T2Q	open Xeric Sandhill Scrub



MAP 1 BONNIE DOONE NATURAL AREA
CUMBERLAND COUNTY



MAP 2 BONNIE DOONE NATURAL AREA

NORTH CAROLINA REGISTRY OF NATURAL HERITAGE AREAS

Letter of Intent and Agreement to Register and Protect a Natural Area

WHEREAS, The Public Works Commission of the City of Fayetteville is the owner of an area known as Bonnie Doone Natural Area, and whose property consists of approximately 195 acres of the 265 acre natural area, further described on the attached maps and descriptions which are a part of this Agreement, and located in Cumberland County.

WHEREAS, this site possesses the following natural values, justifying its recognition by the State as an outstanding part of the natural heritage of North Carolina:

Bonnie Doone Natural Area supports an ancient stand of longleaf pine. Many of these majestic trees were tapped for resin for the turpentine industry over a century ago. The dry, sterile sand ridges on the east side of Bonnie Doone Lake have been virtually unaltered since the land was acquired by the Public Works Commission in the early 1940's. No timber has been removed from most of the natural area acreage since the lake was constructed. The extensive, old-growth longleaf pine forest contains hundreds of turpentine-scarred, flat-crowned longleaf pines. The forest seems to show the natural grove-like or clumped distribution of uncut longleaf pine forests. Many of the pine trees are over 200 years in age, and some are thought to be close to 400 years old. No longleaf pine stands of comparable age and extent have been located in North Carolina.

Two rare species are associated with the natural area, the Red-cockaded woodpecker and Wells' pixie moss, a ground-hugging, flowering plant found only in the sandhills of North and South Carolina.

THEREFORE, it is agreed by the parties whose names are affixed below that Bonnie Doone Natural Area shall be entered on the official North Carolina Registry of Natural Heritage Areas on the 9th day of August, 1990.

It is understood that this agreement involves no change of title or loss of ownership rights, but simply expresses the sincere intentions of the landowner to refrain from making or permitting changes that negatively affect the natural values for which this area is registered, within the boundaries outlined on the attached maps and/or survey descriptions. Specifically, the owner agrees to maintain the registered area according to the guidelines outlined in the attached document under Protection and Management Recommendations. The long-term management objectives for the Bonnie Doone Lake tract should be compatible with restoring and maintaining the natural sandhills character of the site.

It is further understood that neither the Department nor the landowner offers any assurances as to the conditions on the tract involved or for the safety of persons thereon. Neither party shall incur any liability for any injury to persons or property on the land as a result of this agreement.

The 195-acre portion of the Bonnie Doone Natural Area owned by the Public Works Commission of the City of Fayetteville is hereby registered for an indefinite period until terminated in writing by either party to the other upon thirty (30) days notice.

By ______________________ for

Secretary
Department of Environment, Health,
and Natural Resources
Post Office Box 27687
Raleigh, North Carolina 27611

By Timothy Wood

Mr. Timothy Wood
General Manager
Public Works Commission of
the City of Fayetteville
P.O. Box 1089
Fayetteville, N.C. 28302-1089

Date: August 27, 1990

Date: August 9, 1990

METHODS OF PROTECTION

Once a site is selected as a priority natural area on the basis of the importance of its natural elements, protection efforts can proceed. After the landowner has been identified, he or she should be informed of the ecological significance of the property and offered a range of options for ensuring protection of the site. The three methods of protection most often recommended by the Natural Heritage Program are registration, dedication, or acquisition (by gift or sale).

The State's Registry of Natural Heritage Areas and Dedicated Nature Preserves System have been described in the Natural Heritage Program's Biennial Report. Both are means to protect a natural area by voluntary agreement of the private or public owner. The N.C. Nature Preserves Act provides the statutory basis for both. No area is registered or dedicated without the voluntary consent of the landowner. Landowner participation in the registry is voluntary. Dedication is also voluntary but is legally binding and permanent.

Registration. The Registry of Natural Heritage Areas has demonstrated its success in arranging voluntary protection agreeements with landowners. An owner is recognized by the award of a certificate of registration. The landowner's cooperation may be publicized, but only if the landowner so desires. Registration provides no rights of public access, and directions to a registered site are not published. Management of a registered site is the responsibility of the landowner, although the owner may voluntarily accept a management agreement. Certain public lands, which are registered, are further protected by legal or administrative designations.

By informing the owners of the statewide importance of the land, the Registry reduces the chance that natural elements on these properties might be inadvertently destroyed. This method of protection can quickly reach owners of important sites at minimal cost to the state. Because the owner has no legal obligation to protect the outstanding natural element(s), protection through registration relies heavily on maintaining cooperative relationships and regular communication with landowners.

Dedication. Dedication secures a much stronger degree of protection for natural heritage resources. A private landowner may voluntarily cede to the State of North Carolina a legal interest in the land (usually a conservation easement) for preservation purposes. The instrument of dedication ("articles of dedication") specifies the less-than-fee real property interest that is transferred to the state, and may provide for additional provisions such as management, custody, access, use or rights and privileges retained by the owner. Land owned by the State of North Carolina or local government agencies may also be dedicated as nature preserves. For public lands, the dedication requires a commitment by the managing agency to protect the natural element(s) on the site. The managing agency is not required to surrender any real property interests or management authority. Dedication agreements must be approved by the Governor and Council of State on behalf of the State of North Carolina. Likewise, the Governor and Council of State must approve any amendment or termination of preserve dedication or any land use contradictory to the protection of the natural heritage resources in the future.

Land Acquisition for Natural Area Preserves. The present owners of some important natural areas may be unwilling to ensure their protection voluntarily, and, therefore, acquisition may provide the optimal, long-term protection for certain natural areas. Public agencies or private, non-profit conservation organizations may purchase, lease, or receive by gift, important natural areas. The natural areas on the acquired lands can then be designated for protection by registration or dedication or other administrative action. Lands acquired by the State of North Carolina must be accepted by the Governor and Council of State, and, on recommendation by the Office of State Property, are usually allocated to a specific agency for management.

The Natural Heritage Program also works with a variety of private land conservancies, which acquire land from willing sellers or donors. The N.C. Nature Conservancy has been most active in acquiring important natural areas. State laws encourage the protection of natural lands by statewide and local land conservancies, which are incorporated for conservation purposes as non-profit, charitable organizations serving in the public interest.

The State General Assembly in 1987 created a Recreation and Natural Heritage Trust Fund for the purpose of awarding grants to state agencies for purchase and management of natural areas or natural heritage inventories. The legislature in 1987 provided a small appropriation to the Trust Fund for grants in the 1987-89 biennium, and in 1989 created a source of continuing financing for the acquisition and management of important natural lands with receipts from increased annual fees for personalized vehicle license plates. In the first year of fee collection, the Trust Fund received more than $1.7 million for dispursement in grants.

MANAGEMENT OF NATURAL AREAS

Management of natural areas is needed to protect the ecological processes and elements for which the preserve was established. Management of natural areas is also necessary to ensure protection of their scientific, educational, and other public values. Management will often be passive, allowing natural processes to operate unimpeded. Active management may be employed in some cases, however, where it simulates or restores the natural ecological processes. Prescribed burning (known as "ecological fire management") is often needed to maintain fire-dependent natural ecosystems.

All management decisions are the responsibility of the landowner or managing agency, as determined by agency policies, guidelines, and regulations. The Natural Heritage Program simply provides information to landowners or managing agencies that may be of assistance to them in making management decisions for the benefit of the natural resources. Registration agreements contain a statement of management objectives for voluntarily protected natural areas. Articles of dedication declare the management principles for a preserve and assign management responsibilities. Management plans are required for each dedicated nature preserve.

NORTH CAROLINA NATURAL HERITAGE AREAS PRIORITY LIST, 1991

The Natural Heritage Program compiles the N.C. Department of Environment, Health, and Natural Resources' priority list of "Natural Heritage Areas" as required by Nature Preserves Act. The list is based on the program's inventory and evaluations of the state's natural diversity and uses criteria described in the Natural Heritage Protection Plan. The following list of the state's most significant natural areas is organized by county, and sites are ordered by ratings of (A) national, (B) statewide, or (C) regional (greater than local) significance. This list does not include sites considered to be of local importance.

"Nationally significant" areas represent natural communities, ecosystems, or geomorphic landforms that are among the highest quality or best of their kind in the entire nation, or are "critical habitats" for animals or plants designated as nationally endangered or threatened.

Areas of "statewide significance" contain ecological resources that are among the highest quality occurrences in North Carolina, or are critical habitats for species recognized as endangered or threatened in this state. There may be better quality representations or larger populations elsewhere in the nation.

Areas of "regional significance" contain natural elements that may be represented elsewhere in the state by better quality examples, but which are among the outstanding examples in their geographic region of the state.

Sizes of priority areas differ greatly. A site may be restricted to an isolated half acre containing a last remnant population of an endangered species or other unique feature. Another area may encompass thousands of acres and support many exceptional natural resources and special-interest species, but which should most logically be considered a large composite natural area. Thus, the same priority category may include an area as small as a single rock outcrop harboring an endangered species, or as large as the Great Smoky Mountains National Park. Frequently, several related sites are combined in a larger composite, with a combined priority rating. These classes of areas are recognized: Megasites are large, cohesive areas generally of a size greater than 100 square miles (64,000 acres); Macrosites are smaller areas, generally of 5 to 100 square miles (3,200 to 64,000 acres); Standard sites are usually smaller than 3,200 acres. Macrosites and megasites are generally identified by their names.

Frequently related sites occur in clusters. A cluster of sites may be grouped together into a single, larger macrosite or megasite, with several standard sites "nested" within it. In a few cases, three levels of nesting may be appropriate -- standard sized sites in macrosites in megasites. On the list of priority areas, nesting of sites is indicated by symbols preceeding the site name: a "+" indicates a "stand-alone" site; a "+>" indicates a macrosite nested within a megasite; a "->"

indicates a standard site nested within a macrosite or megasite; a "---" indicates a standard site nested in both a macrosite and a megasite. Nested sites are listed as a group under the priority rank of the macrosite or megasite, but the priority rank of each smaller componite site is also given.

The basic consideration for determining significance is that an area must contain one or more high quality examples of ecological elements. That criterion is intended to capture the full range of North Carolina's natural diversity by identifying the best examples of natural elements in each region of the state. Of primary concern are exemplary natural communities, geomorphic landforms, habitats of endangered or significantly rare plant and animal species, disjunct or relict ecological resources, and essential wildlife habitat.

The relative rarity and endangerment status of the elements in a natural area are the principal considerations in determining the priority of a natural area. All sites on this Natural Areas Priority List have been evaluated on the basis of their possession of natural resource elements that best represent and maintain North Carolina's natural heritage, and by comparison with other natural areas containing similar resources. Each natural element inventoried by the Natural Heritage Program has been ranked on the basis of its relative rarity, endangerment, and protection status. An "Element Ranking" has been determined for each inventoried element, as described previously in this Natural Heritage Protection Plan. Furthermore, the specific locations of each highly ranked natural element have been rated on the basis of the quality and condition of the element occurrence, as well as by the potential for protecting and managing the element at that site. "Element Occurrence Scorecards" are used to evaluate the locations of all highly ranked natural elements, described previously in this Plan. Through this analysis of inventory data currently available, the Natural Heritage Program has identified and ranked the state's most important natural areas. Secondary criteria entering in the process of comparing and evaluating natural areas with similar resources include: the viability of the resources on the site, the condition of the special natural elements and the quality of the site; and the combination with other important ecological resources at the site.

A "Biodiversity Significance" rating code is indicated for each Natural Area on the Priority List:

B1 - Outstanding significance, generally of a "last of the least" type, such as the only known occurrence of any element, best or A-quality ranked occurrences of G1 elements, or outstanding concentration of high-ranked occurrences of G1 or G2 elements. Site should be viable and defensible for the elements and ecological processes contained.

B2 - High significance, often of "best of the rest" type, such as other than the very best occurrences of G1 elements, the most outstanding occurrences of any G2 or G3 species or community elements, or concentrations of better occurrences of S1 (G4 or G5) elements.

B3 - Moderate significance, such as at least C-ranked occurrences of G2 or G3 elements, A-ranked occurrences of S1 (G4 or G5) elements, B-ranked occurrences of any community element, or concentrations of better occurrences of S2 (G4 or G5) elements.

B4 - Modest significance, such as at least C-ranked occurrences of S1 or S2 (G4 or G5) elements, or best occurrences of concentrations of S3 (G4 or G5) elements.

B5 - No known significant biodiversity interest. Secondary environmental importance.

After the importance of a natural area is recognized, further protection strategies and management decisions may be based on the consideration of other factors such as:

a) threats to the site;
b) ability to manage the site and its natural elements;
c) feasibility of protecting the site and its natural elements;
d) coincidence of additional values (including educational, scientific research, and recreational opportunities);
e) existence of a cooperative owner or interested management agency.

This priority list is dynamic, like the Natural Heritage Inventory. More inventory and research is necessary to identify the locations of the state's rare species and significant ecological resources. Many historical records of endangered and rare species and other important ecological resources have not been verified, and the present condition of their reported locations is unknown. Many parts of the state have not been adequately or completely surveyed. As more inventory and evaluation work is done, additional information will enable the Natural Heritage Program to identify other high-priority natural areas. Comparisons between newly identified natural areas and previously recognized areas with similar natural elements will prove that some deserve higher or lower priorities. The Natural Heritage Program will continue to conduct and promote investigations that will reveal more information and enable us to evaluate the importance of natural areas more accurately.

The Natural Areas Priority List serves as a protection planning and strategy document. Each site on the list qualifies as eligible for inclusion on the North Carolina Registry of Natural Heritage Areas. All sites rated as having national or statewide significance are clearly qualified for dedication as North Carolina Nature Preserves (when not in federal ownership). In some cases, acquisition of natural areas is recommended. Notes indicate which sites have already been registered or dedicated as protected natural areas.

The degree of urgency for protective action (relative to active threat) is indicated. The urgency for protection action should not be confused with the urgency for management action. The protection urgency will generally increase with impending threats to the site until legal, political, or other administrative measures are taken. The protection urgency codes are:

P1 - Immediately threatened by severely destructive forces (likely to be destroyed within one year; now or never!).

P2 - Threat expected within 5 years.

P3 - Definable threat, but not in next 5 years.

P4 - No threat known for foreseeable future.

P5 - Land protection complete.

A protection action typically involves raising the current status (CS) of one or more tracts at a site. It may also include activities such as educational or public relations efforts or collaborative planning efforts with other public or private entities to minimize adverse impacts to element occurrences at a site. It does not include management actions (i.e., any action requiring management intervention). Urgency for management action should be determined separately. Threats that may require a protection action include:

(1) anthropogenic forces that threaten the existence of one or more element occurrences at the site -- e.g., (a) development that would destroy, degrade, or seriously compromise the long-term viability of an element occurrence, and (b) timber, recreational, or hydrologic management that is incompatible with an element occurrence's existence;

(2) the inability to undertake a management action in the absence of a protection action (e.g., obtaining a management agreement);

(3) in extraordinary circumstances, a prospective change in ownership or management that will make future protection actions much more difficult.

An ownership code is provided for each site. The present protection status of each site is indicated, and a future protection strategy is recommended. Definitions of those codes are provided on the following pages.

Tallies of Total North Carolina Priority Natural Areas

PRIORITIES

A (National)	208	
B (Statewide)	369	
C (Regional)	398	
L (Local)	22	(only included when site is part of larger and higher ranked macrosite)
PB	4	
PC	25	

BIODIVERSITY SITE RANKINGS

B1	136
B2	235
B3	557
B4	32
B5	9
Unranked	58

PROTECTION URGENCY (based on threat)

P1	58
P2	175
P3	447
P4	247
P5	20

OWNERSHIP CODES AND LEAD PROTECTION AGENCY CODES

The following codes indicate owners of natural areas and organizations recommended to lead protection efforts for specific sites:

Federal Agencies

COE - Corps of Engineers
DOD - Department of Defense
FWS - Fish and Wildlife Service
NPS - National Park Service
TVA - Tennessee Valley Authority
USFS - US Forest Service

State Agencies

NC DA - Department of Agriculture
NC DNRCD - Department of Natural Resources & Community Development
  SP Division of Parks and Recreation
  SF Division of Forest Resources
  CM Division of Coastal Management
  MF Division of Marine Fisheries
  NHP - Natural Heritage Program
NC CUL - Department of Cultural Resources
NC DC - Department of Correction
NC DOT - Department of Transportation
NC HR - Department of Human Resources
NC WRC - Wildlife Resources Commission

Local Agencies

LOCAL - unit of local government

Universities and Colleges

ASU - Appalachian State University
DUKE - Duke University
ECU - East Carolina University
UNCA - Univ. of North Carolina at Asheville
UNCC - Univ. of North Carolina at Charlotte
UNCCH - Univ. of North Carolina at Chapel Hill
UNCG - Univ. of North Carolina at Greensboro
UNCW - Univ. of North Carolina at Wilmington
NCSU - North Carolina State University
WCU - Western Carolina University

Private

PRV - Private owner (corporate or individuals)
AUD - National Audubon Society
FEL - Felburn Foundation
HBF - Highlands Biological Foundation

NCBG - NC Botanical Garden Foundation
NCCF - NC Coastal Federation
NCFF - NC Forestry Foundation
NSL - National Scout Lands (Boy or Girl Scouts)
SAHC - Southern Appalachian Highlands Conservancy
TLC - Triangle Land Conservancy
TNC - The Nature Conservancy

OTHER SPECIAL STATUS AND PROTECTION STATUS CODES:

RHA - Registered Natural Heritage Area
DNP - Dedicated Nature Preserve
ESN - Estuarine Sanctuary
EWA - Established National Wilderness Area
MAB - UNESCO Man and the Biosphere Reserve
RNA - Federal Research Natural Area
SAF - Society of American Foresters registered area
WSR - National Wild and Scenic River

CURRENT PROTECTION STATUS/INTENDED PROTECTION STATUS CODES

0 - No protection. Landowner or land manager unaware of the special-interest natural features, or unsympathetic to their protection.

1 - Landowner/manager has been notified of the natural features and important of the natural area.

2 - Voluntary protection:
  a. Landowner/manager agrees voluntarily to protect the natural features of the site, through a nonbinding agreement (eg., registration, cooperative agreement, use agreement).
  b. Property is federally owned and the management agency agrees to protect the special-interest natural features of the site.

3 - a. Bequest: Landowner promises to will the tract to a conservation entity (public or private)
  b. Right of First Refusal: Landowner grants right of first refusal to purchase a tract to a conservation entity (public or private)

4 - Legally binding protection agreement:
  a. Landowner signs a legally binding management agreement (any kind) with a conservation entity
  b. Landowner signs lease, license, etc., with a conservation entity

5 - Landowner conveys an undivided interest in the property to a conservation entity

6 - a. Property is publicly owned and has been designated by the managing agency for conservation administration (eg., Federal Research Natural Area, National Wilderness Area, National Wild and Scenic River)
  b. Landowner conveys an interest in the property, wills the remainder (NOT a remainder interest, which can be revoked) and grants management control over the life estate to a conservation entity

7 - Less than fee acquisition: a conservation entity controls the natural features through a perpetual legally binding agreements such as:
  a. Conservation easement
  b. Reverter interest (in the deed-out)
  c. Retained rights (in the deed-out)
  d. Lease back
  e. Remainder interest with restricted life estate

8 - Fee title: a conservation entity holds all rights and manages the property for conservation and has been notified of the natural features

9 - Dedication: all rights to destroy the natural features have been dedicated to the State's legally-established nature preserves system.

1991
PRIORITY PROTECTION
LIST

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
Alexander *A*								
+JOE-LITTLE JOE MOUNTAINS	MORAVIAN FALLS	A	B1	TNC	8	9	P4	POTENTIAL DNP
				PRV	0/1	2A/8/9		
Alexander *B*								
+LITTLE MOUNTAIN	MORAVIAN FALLS	B	B2	PRV	0	2A+	P3	
+ROCKY FACE MOUNTAIN	HIDDENITE	B	B2	FEL	2A/8	8/9	P3	POTENTIAL DNP
				PRV	0	2A/8/9		
+SUGARLOAF MOUNTAIN	MORAVIAN FALLS	B	B2	PRV	0	2A+	P3	
Alleghany *A*								
+STONE MOUNTAIN	GLADE VALLEY	A	B2				P3	
ESCARPMENT COMPLEX	WHITEHEAD							
MACROSITE								
->STONE MOUNTAIN STATE	GLADE VALLEY	A	B2	NCSP	8/2A	9/2A	P3	RHA/POTENTIAL DNP
PARK	TRAPHILL			PRV	1	1/2A/8/9		
	WHITEHEAD							
->DOUGHTON PARK	WHITEHEAD	B	B2	NPS	8/2B	8/2B	P5	PARTS RHA
+SPARTA BOG	SPARTA	A	B2	PRV	0	2A+	P2	
Alleghany *B*								
+BRUSH CREEK BOG	ROARING GAP	B	B3	PRV	0	2A+	P3	
	GLADE VALLEY							
+EDMONDS BOG	CUMBERLAND KNOB	B	B3	PRV	0	2A+	P3	
+LAUREL BRANCH BOG	GLADE VALLEY	B	B3	PRV	0/1	2A/7A	P3	
+LITTLE GLADE CREEK ROBIN	GLADE VALLEY	B	B2	PRV	0	8/2B	P3	
RUNAWAY SITE				NPS	8/2B	8/2B		RHA
+SOUTH FORK NEW RIVER	MOUTH OF WILSON	B	B3	PW	6A	6A/6C	P2	WILD & SCENIC RIVER DESIG.
	JEFFERSON							
	LAURAL SPRINGS							
Alleghany *C*								
+SADDLE MOUNTAIN	CUMBERLAND KNOB	C	B3	TNC	8	8/2A	P4	
	ROARING GAP							
+SUSAN'S BOG	WHITEHEAD	C	B2	NPS	8/2B	8/2B	P5	RHA
Anson *A*								
+PEE DEE NATIONAL	ANSONVILLE	A	B2	PRV	0	8/2B	P3	
WILDLIFE REFUGE				FWS	8/2B	8/6A		
Anson *B*								
+FLAT ROCK CHURCH OUTCROP	LILESVILLE	B	B2	PRV	1	8/9	P2	
+HIGHTOWER ROCK	WADESBORO	B	B2	PRV	1	2A/8	P2	
+MILLSEAT OUTCROP	WADESBORO	B	B2	PRV	2A	2A/7	P4	RHA
Ashe *A*								
+BLUFF MOUNTAIN	WARRENSVILLE	A	B1	TNC	1/2A	8/9	P2	RHA/POTENTIAL DNP
				PRV	0	8/9		
+LONG HOPE VALLEY	ZIONVILLE	A	B1	PRV	1	7/8/9	P3	
	BALDWIN GAP							
+THREE TOP MOUNTAIN	WARRENSVILLE	A	B1	PRV	0/1	2A/8	P2	
Ashe *B*								
+LAUREL FORK ROBIN	LAUREL SPRINGS	B	B3	NPS	8/2B	8/2B	P5	RHA

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
RUNAWAY SITE	WHITEHEAD							
+MOUNT JEFFERSON STATE PARK	JEFFERSON	B	B2	PRV	0	8	P4	
				NCSP	2A	9		RHA/POTENTIAL DNP
+NEW RIVER VIRGINIA SPIRAEA SITE #3	JEFFERSON	B	B2	DOT	0	2A/4A	P2	
+PHOENIX MOUNTAIN	JEFFERSON	B	B1	PRV	0/I	7/8	P3	
+SOUTH FORK NEW RIVER	MOUTH OF WILSON JEFFERSON LAURAL SPRINGS	B	B3	PW	6A	6A/6C	P2	WILD & SCENIC RIVER DESIG.
Ashe *C*								
+CRANBERRY MASH (BEAR CREEK BOG)	GLENDALE SPRINGS	C	B3	PRV	0	2A+	P2	
+NEW RIVER VIRGINIA SPIRAEA SITE #1	LAUREL SPRINGS	C	B2	PRV	0	2A	P3	
+NEW RIVER VIRGINIA SPIRAEA SITE #2	LAUREL SPRINGS	C	B2	PRV	0	2A	P3	
+VANNOY MEADOW--GRAY'S LILY SITE	JEFFERSON	C	B3	PRV	1	2A	P4	
Avery *A*								
+ROAN MOUNTAIN HIGHLANDS MEGASITE		A	B1					
->BIG YELLOW MOUNTAIN	CARVERS GAP	A	B1	TNC	8/9	8/9	P3	DNP
				SAHC	8/2A	2A/9		RHA
				PRV	0	8/9		
->ROAN MOUNTAIN MASSIF	CARVERS GAP	A	B1	USFS	2B	2B	P4	RHA
	ELK PARK			SAHC	8/2A	8/2A/9		RHA
	WHITE ROCKS ETC.			PRV	0	8/2A/2B		
+GRANDFATHER MOUNTAIN	GRANDFATHER MOUNTAIN	A	B1	PRV	2A/7A	7A/9	P1	RHA
				NPS	2B	2B		RHA
	VALLE CRUCIS			PRV	1	7/8/9		
+HANGING ROCK MOUNTAIN	VALLE CRUCIS	A	B1	PRV	1/2A/7A	2A/7A	P1	PART RHA
+PINEOLA BOG	NEWLAND	A	B1	PRV	1/2A	7A	P2	PART RHA
+SUGAR MOUNTAIN NATURAL AREA	NEWLAND	A	B1	PRV	1	2A/8	P3	
Avery *B*								
+FLAT ROCK MOUNTAIN	GRANDFATHER MOUNTAIN	B	B2	NPS	8/2B	8/2B	P5	RHA
+LINVILLE GAP (INVERSHIEL) BOG	GRANDFATHER MOUNTAIN	B	B3	PRV	0	2A+	P2	
Avery *C*								
+HIGH HAVEN NATURAL AREA	NEWLAND	C	B3	PRV	2A	2A+	P4	RHA
+LOST COVE CLIFFS	GRANDFATHER MOUNTAIN	C	B3	USFS	1	2B/6A	P4	
Beaufort *B*								
+GOOSE CREEK GAME LAND	SOUTH CREEK LOWLAND	B	B3	NCWRC	0	2A	P3	
+JACKSON SWAMP REMNANTS	RANSOMVILLE	B	B3	PRV	0	2A+	P3	
+NORTH MINNESOTT SAND RIDGE	BAYBORO	B	B3	PRV	0	2A+	P3	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner	Typ	Current Status	Intended Status	Prot Urg	Comments
+UPPER PUNGO RIVER	BELHAVEN	B	B3	PRV		0	2A+	P3	
+VOICE OF AMERICA (SITE A) SPARROW SITE	LEGGETTS CROSSROADS	B	B3	USA		1	2A/4A	P3	
Beaufort *C*									
+BANJO CREEK WOODS	RANSOMVILLE	C	B3	PRV		0	2A+	P3	
+BROAD CREEK MARSHES AND FOREST	PANTEGO	C	B3	PRV		0	2A+	P3	
+CHERRY RUN HEADWATER FLATS	WASHINGTON	C	B3	PRV		0	2A+	P3	
+GOOSE CREEK STATE PARK	BLOUNTS BAY	C	B3	NCSP		2A	9	P4	RHA/POTENTIAL DNP
+HAW CREEK MEANDER	LEGGETTS CROSSROADS	C	B3	PRV		0	2A+	P3	
+HILLS CREEK/CAMP HARDEE WOODS	HACKNEY BLOUNTS BAY	C	B3	PRV		0	2A+	P3	
+INDIAN ISLAND	SOUTH CREEK	C	B3	PRV		0	2A+	P3	
+LITTLE CREEK FORESTS	BLOUNTS BAY	C	B3	PRV		0	2A+	P3	
+NEVIL CREEK NATURAL AREA	BLOUNTS BAY	C	B3	PRV		0	2A+	P3	
+PANTEGO SWAMP AND POCOSIN	BELHAVEN PANTEGO PUNGO LAKE	C	B3	PRV		0	2A+	P3	
+PANTEGO WETLANDS	PANTEGO	C	B3	PRV		0	2A+	P3	
+SOPHIE ISLAND NATURAL AREA	PONZER	C	B3	PRV		0	2A+	P3	
+ST. CLAIR CREEK NATURAL AREA	RANSOMVILLE	C	B3	PRV		0	2A+	P3	
+SWEETGUM SWAMP FOREST REMNANT	SOUTH CREEK	C	B3	PRV		0	2A+	P3	
+WESTERN GUM SWAMP	BAYBORO	C	B3	PRV NCWRC		0 0	2A+ 2A	P3	
Bertie *A*									
+ROANOKE RIVER MEGASITE		A	B1						
->BROAD CREEK NECK	JAMESVILLE PLYMOUTH WEST	B	B3	PRV		1	8/2A+	P2	
->BROADNECK RIDGE	HAMILTON	B	B2	NCWRC		8	6A	P4	PROPOSED FOR WILDLIFE REFUGE
->BROADNECK SWAMP	HAMILTON	B	B2	FWS		8	2B/6A	P4	
->CLARK ESTATE	PALMYRA	B	B2	PRV		0	8/2A	P3	
->COMPANY SWAMP	QUITSNA	B	B2	NCWRC		8	6A	P4	PROPOSED FOR WILDLIFE REFUGE
->CONINE ISLAND	QUITSNA WINDSOR SOUTH JAMESVILLE WILLIAMSTON	B	B2	NCWRC		8	6A	P4	PROPOSED FOR WILDLIFE REFUGE
->CONIOTT CHERRYBARK OAK RIDGE	HAMILTON	B	B2	PRV		1	8/2B	P2	
->ROANOKE RIVER DELTA ISLANDS	WOODARD WESTOVER PLYMOUTH WEST PLYMOUTH EAST	B	B3	NCWRC PRV		8 1	6A 8/2A	P3	PROPOSED FOR WILDLIFE REFUGE
->ROANOKE RIVER/NC 11 ALLUVIAL FLATS	WOODVILLE HAMILTON	B	B3	PRV		0	8/6A	P2	
->CASHOKE CREEK BEECH SLOPES	WOODARD	C	B3	PRV		0	2A+	P3	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
->RASCOE MILLPOND	HAMILTON QUITSNA	C	B3	PRV PRV	0 0	2A+ 2A	P3	
Bertie *B*								
+ROQUIST POCOSIN	WOODVILLE	B	B2	PRV	0	8	P1	
Bertie *C*								
+BLACK WALNUT SWAMP	WOODARD	C	B4	PRV	0	2A+	P3	
+COLERAIN/COW ISLAND SWAMP AND SLOPES	COLERAIN VALHALLA MINTONSVILLE	C	B3	PRV	0	2A/8	P2	
+JENNETTE'S SWAMP	WOODARD	C	B4	PRV PRV	0 0	2A+ 2A	P3	
+MERRY HILL MESIC FLATS HARDWOOD FOREST	WOODARD	C	B3	PRV	0	2A+	P2	
+MT. GOULD LANDING FOSSIL BED-CHOWAN RIVER	EDENHOUSE	C	B5	PRV	0	2A	P4	
+ROQUIST CREEK/CASHIE RIVER SWAMP	WINDSOR SOUTH	C	B3	PRV	0	2A+	P3	
+SALMON CREEK SWAMP	EDENHOUSE MERRY HILL	C	B4	PRV	0	2A+	P3	
+WADING PLACE CREEK AND SWAMPS	WOODARD	C	B3	PRV	0	2A+	P2	
Bladen *A*								
+BLADEN LAKES NATURAL AREAS MEGASITE		A	B1					
+>HORSESHOE LAKE (SUGGS MILLPOND) AND MARSHY BAY	JEROME	A	B2	PRV	1	7/8/9	P3	POTENTIAL DNP
->CHARLIE LONG MILL POND-BIG COLLY BAY	AMMON ELIZABETHTOWN NORTH	A	B3	NCSF	2A	9	P4	
->JONES LAKE STATE PARK	ELIZABETHTOWN NORTH DUBLIN	A	B2	NCSP	2A	9	P4	RHA/PROPOSED DNP
->MILL POND BAY NATURAL AREA	AMMON	A	B2	PRV PRV	1 1	2A/7A 2A+	P3	RHA
->TATUM MILL POND-CYPRESS BAY	ELIZABETHTOWN NORTH	A	B3	NCSF	2A	9	P4	RHA/POTENTIAL DNP
->ADDIE BARNES PINE NATURAL AREA	WHITE LAKE	B	B3	NCSF	1	2A/9	P2	
->JOHNSON MILL POND NATURAL AREA	ELIZABETHTOWN NORTH	B	B3	NCSF	2A	9	P4	RHA
->WHITE OAK PONDBERRY SITE	JEROME	B	B3	PRV	1	4A	P1	RHA
->BAKERS LAKE CAROLINA BAY	DUART	C	B3	PRV	0	2A+	P3	
->BEAGLE BAY	WHITE LAKE	C	B3	PRV	0	2A	P4	
->BIG BAY ROAD NATURAL AREA	ELIZABETHTOWN NORTH	C	B3	NCSF	1	9	P3	
->BIG COLLY SWAMP	ROWAN SINGLETARY LAKE WHITE LAKE	C	B4	PRV	0	8/2A	P3	
->BURNED BAY	DUBLIN	C	B3	NCSF	1	2A	P4	
->CAPE FEAR SLOUGHS	SINGLETARY LAKE	C	B3	NCSF	1	2B/9	P3	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner	Typ	Current Status	Intended Status	Prot Urg	Comments
->COTTON HEAD SAND RIDGE	ELIZABETHTOWN NORTH	C	B3	NCSF		1	2A	P3	
->JENNY STRAND PINE NATURAL AREA	ELIZABETHTOWN NORTH	C	B3	NCSF		1	9	P2	
->PONDSPICE POND	SINGLETARY LAKE	C	B4	NCSF NCSP PRV		1 0 0	2A 2A 2A	P3	
->SINGLETARY LAKE STATE PARK	SINGLETARY LAKE	C	B3	NCSP NCSF		1/2A 2A	9 9	P3	RHA RHA
->SUGAR LOAF SPRINGS	ELIZABETHTOWN SOUTH	C	B4	NCSF		1	2A	P3	
->SUZY HILL NATURAL AREA	ELIZABETHTOWN NORTH	C	B3	NCSF		1	2A	P2	
->TURNBULL CREEK SWAMP	ELIZABETHTOWN NORTH	C	B3	NCSF		1	9	P2	
->BIG GALLBERRY BAY	JEROME	C	B3	PRV		0	2A+	P3	
+BLACK RIVER CYPRESS FOREST	POINT CASWELL ROWAN ATKINSON CURRIE	A	B1	TNC PRV		8 1/7	8/9 2A/7/8/9	P3	TNC HOLDS EASEMENT ON PART
Bladen *B*									
+AMMON RESINOUS BONESET SITE	AMMON	B	B3	PRV		0	2A+	P3	
+CEDAR SWAMP SEEP	JEROME	B	B3	TNC		8/2A	8/2A	P5	RHA
+PHOEBUS LANDING FOSSIL SITE-CAPE FEAR RIVER	ELIZABETHTOWN	B	B5	PRV		1	2A	P4	
+SOUTH RIVER AQUATIC HABITAT	TOMAHAWK ROWAN GARLAND	B	B1	PW		1	6C	P2	
+WALKERS BLUFF	SINGLETARY LAKE	B	B2	PRV		2A	2A+	P4	RHA
Bladen *C*									
+OTTER SLIDE LIMESINK COMPLEX	KELLY	C	B3	PRV		0	2A	P3	
Brunswick *A*									
+SOUTHEASTERN BRUNSWICK COUNTY MEGASITE		A	B1						
+>ORTON PLANTATION MACROSITE	CAROLINA BEACH FUNSTON	A	B1	PRV		1	8/2A	P2	
--->ORTON POND	CAROLINA BEACH	A	B1	PRV		1	8	P2	
--->BLUE POND	CAROLINA BEACH	B	B2	PRV		0	8	P2	
--->NC 133 LOOSESTRIFE SITE	CAROLINA BEACH	B	B2	PRV		1/4A	8/2A	P2	
--->ORTON CREEK SAVANNA	SOUTHPORT	B	B2	PRV		0	8/2A	P2	
--->GREEN POND AND SAVANNA	FUNSTON	C	B3	PRV		0	8/2A	P2	
->BOILING SPRING LAKES--WETLAND COMPLEX	FUNSTON SOUTHPORT	A	B1	PRV		0/1	8	P2	
->MILITARY OCEAN TERMINAL SUNNY POINT	CAROLINA BEACH KURE BEACH FUNSTON SOUTHPORT	A	B1	DOD		1	2B/6A	P3	
->BIG CYPRESS BAY AND	LOCKWOODS FOLLY	B	B3	PRV		1	2A/8	P2	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
PONDS								
->BOILING SPRING LAKES--LIMESINK COMPLEX	FUNSTON	B	B2	PRV PRV	0 1/4A	8 8/2A	P2	PART DEVELOPED
->LOWER CAPE FEAR RIVER AQUATIC HABITAT	WILMINGTON CAROLINA BEACH KURE BEACH	B	B2	PW	0	6C	P2	
->SOUTHPORT FERRY LANDING FOREST	KURE BEACH SOUTHPORT	B	B3	PRV	0	2A+	P2	
->SUNSET HARBOR-ASH SWAMP	LOCKWOODS FOLLY	B	B3	PRV	0	2A+	P2	
->LITTLE BLUE POND-BLACK POND	CAROLINA BEACH	C	B3	PRV	0	2A+	P2	
->PLEASANT OAKS PLANTATION	CAROLINA BEACH WILMINGTON	C	B3	PRV	0	2A/8	P2	
->PRETTY POND LIMESINK COMPLEX	FUNSTON	C	B2	PRV NSL	0 0	2A+ 2A	P2	
+WACCAMAW RIVER WETLANDS MEGASITE		A	B1					
+>MIDDLE WACCAMAW RIVER MACROSITE	FREELAND PIREWAY	A	B2					
--->REEVES AREA FLOODPLAIN	FREELAND	B	B3	PRV	0/1	2A/8	P3	
--->WACCAMAW ISLAND SAVANNA	PIREWAY FREELAND	B	B2	PRV	0	8/9	P2	
->WACCAMAW RIVER AQUATIC HABITAT	OLD DOCK FREELAND NAKINA PIREWAY LAKE WACCAMAW WEST LONGS	A	B1	PW	1	6C	P3	
->JUNIPER CREEK FLOODPLAIN	OLD DOCK JUNIPER CREEK EXUM	C	B3	PRV	0	8/2A	P3	
->WACCAMAW RIVER ELEOCHARIS BACKWATER	FREELAND	C	B3	PRV	0	2A+	P3	
->WACCAMAW RIVER OXBOW SITE	LONGS CALABASH	C	B3	PRV	0	2A+	P1	PARTIALLY DAMAGED
->WACCAMAW RIVER RIDGE-AND-SWALE BOGGY OPENINGS	FREELAND	C	B3	PRV	0	2A+	P3	
+BALD HEAD-SMITH ISLAND COMPLEX MACROSITE		A	B1				P2	
->BALD HEAD ISLAND	CAPE FEAR	A	B1	PRV	1	2A/8	P2	
->BALDHEAD ISLAND STATE NATURAL AREA	KURE BEACH CAPE FEAR SOUTHPORT	B	B2	WRC NCSP	0 2A	9 9	P4	 RHA
->ZEKE'S ISLAND ESTUARINE SANCTUARY	KURE BEACH	B	B3	NCCM	9	9	P5	DNP
->MIDDLE ISLAND	CAPE FEAR	C	B3	PRV	1	2A/8	P2	
+GREEN SWAMP PRESERVE	SUPPLY HONEY ISLAND	A	B1	TNC	8/2A	9	P5	RHA/POTENTIAL DNP
+BATTERY ISLAND	SOUTHPORT	A	B2	NC-/AUD	2A/8	9	P4	RHA
+MYRTLE HEAD SAVANNA	OLD DOCK JUNIPER CREEK	A	B1	TNC	8	8/9	P4	

Brunswick *B*

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner	Typ Current Status	Intended Status	Prot Urg	Comments
+BRANTLEY ISLAND	SHALLOTTE	B	B3	PRV	0	2A/8	P2	
+BRUNSWICK RIVER-CAPE FEAR RIVER MARSHES	WILMINGTON CASTLE HAYNE	B	B2	PRV	0	2A+	P4	
+BRYANT MILL (GREENBANK) BLUFF	ACME	B	B2	PRV	0/1	2A+	P4	
+CAMP BRANCH SAVANNA REMNANT	JUNIPER CREEK	B	B2	PRV	0	2A+	P3	POSSIBLY DESTROYED
+LOWER CAPE FEAR RIVER BIRD NESTING ISLANDS	KURE BEACH CAROLINA BEACH	B	B3	NCADM	1/2A	2A	P5	RHA
+SPRING CREEK PONDS	LOCKWOODS FOLLY	B	B3	PRV	0	2A+	P2	
+SUNSET BEACH WOOD STORK PONDS	CALABASH	B	B3	PRV	1	2A	P2	
Brunswick *C*								
+BIRD ISLAND	LITTLE RIVER	C	B3	PRV	0	2A/8	P4	
+BOONE NECK MARITIME FOREST	HOLDEN BEACH	C	B3	PRV	0	2A+	P2	
+FIRETOWER SANDHILL	SHALLOTTE	C	B3	PRV	0	2A+	P3	
+LONG BAYS SAVANNA AND CAROLINA BAYS	FREELAND	C	B3	PRV	0	2A+	P3	
+RIEGEL FIRETOWER PLANT SITE	HONEY ISLAND	C	B3	PRV NCSF	1 1	2A 2A	P4	
+SECESSION MARITIME FOREST	HOLDEN BEACH	C	B3	PRV	0	2A+	P2	
Buncombe *A*								
+BLACK MOUNTAIN-CRAGGY MOUNTAIN COMPLEX MEGASITE		A	B1				P3	
->NORTH FORK WATERSHED	MONTREAT CRAGGY PINNACLE	A	B2	LOCAL NPS	1 2B	2A+ 2B	P3	SMALL PART RHA, OWNER OF MOST REFUSED REGISTRY
->THE CRAGGIES	CRAGGY PINNACLE MONTREAT	A	B1	USFS NPS LOCAL	2B 8/2B 1	2B 2B 2A	P4	RHA
->BRUSH FENCE RIDGE-POINT MISERY	MT. MITCHELL MONTREAT	B	B1	USFS	0	2B	P3	
->HIGH SWAN-BULL MOUNTAIN	CRAGGY PINNACLE	B	B2	NPS USFS	2B 1	2B 2B	P3	RHA
->IVY KNOB	BARNARDSVILLE	B	B3	PRV USFS	0 0	2A+ 2B	P3	
->MONTREAT WATERSHED	MONTREAT	B	B3	LOCAL	0	2A+	P3	
->SNOWBALL MOUNTAIN	CRAGGY PINNACLE	B	B2	USFS	0	2B	P3	
->WALKER COVE	MONTREAT MT. MITCHELL	B	B2	USFS	0/6A/2B	6A/2B	P3	RHA/RNA
->GROVE STONE NATURAL AREA	MONTREAT CRAGGY PINNACLE	C	B3	PRV	1	2A	P3	REFUSED REGISTRY
->NORTH FORK IVY CREEK COVE	MT. MITCHELL	C	B3	USFS	1	2B	P3	PARTIALLY CUT/REMAINDER PROPOSED FOR REGISTRY
->WOODFIN WATERSHED-CAMP SEQUOYAH	CRAGGY PINNACLE	C	B3	PRV LOCAL	0 1	2A+ 2A	P3	
->RUMBLING BALD AND SHUMONT MOUNTAINS	LAKE LURE BAT CAVE	C	B3	PRV	0	2A	P3	

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Buncombe *B*								
+ALEXANDER CLIFFS AND SLOPES	WEAVERVILLE	B	B3	PRV	0	2A+	P3	
+BROAD RIVER MOUNTAIN HEARTLEAF SITE	BLACK MOUNTAIN	B	B3	PRV	0	2A+	P3	
+CEDAR CLIFF KNOB	BARNARDSVILLE	B	B2	USFS	0	2B	P3	
+CEDAR CLIFF-LITTLE CEDAR MOUNTAINS	OTEEN	B	B2	PRV	0	2A+	P3	
+MOUNT PISGAH	CRUSO DUNSMORE MOUNTAIN	B	B2	PRV USFS NPS	1 2B 2B	2A+ 2B 2B	P4	RHA RHA
+SANDY BOTTOM	SKYLAND	B	B3	PRV	2A	2A/8	P3	RHA BUT LAND BEING SOLD
+TURKEY CREEK GORGE	LEICESTER	B	B3	PRV	0	2A	P3	
Buncombe *C*								
+BEARWALLOW MTN.-FACE ROCK	FRUITLAND	C	B3	PRV	1	2A+	P3	
+BROAD RIVER NATURAL AREA	BAT CAVE	C	B3	WWC	2A	2A	P4	RHA
+FLAT CREEK SERPENTINE DIKE	WEAVERVILLE LEICESTER	C	B3	PRV	0	2A+	P3	
+IVY CREEK SUGAR MAPLE-CHESTNUT OAK SLOPE	MT MITCHELL	C	B3	USFS	0	2B	P3	
+LOCUST RIDGE OUTCROP	BARNARDSVILLE	C	B3	PRV	0	2A+	P3	
+OGLE MEADOWS	MT. MITCHELL	C	B3	PRV	0	2A+	P1	
+PANTHER CLIFFS	LEICESTER	C	B3	PRV	0	2A+	P3	
+REEMS CREEK	WEAVERVILLE	C	B3	PRV	0	2A+	P3	
+SAWMILL BRANCH	CRAGGY PINNACLE	C	B3	USFS	0	2B	P3	
+WILLIAMS BRANCH	BARNARDSVILLE	C	B3	PRV	0	2A+	P3	
Burke *A*								
+LINVILLE GORGE MACROSITE		A	B1					
->LINVILLE GORGE	LINVILLE FALLS ASHFORD	A	B1	USFS	6A/2B	6A/2B	P4	RHA/EWA
->LINVILLE FALLS	LINVILLE FALLS	B	B3	NPS	8/2B	8/2B	P4	
Burke *B*								
+SOUTH MOUNTAINS MACROSITE		B						
->MORGANTON WATERSHED	BENN KNOB	B	B2	LOCAL	1	8/2A	P2	DECLINED REGISTRY
->SOUTH MOUNTAINS STATE PARK	MORGANTON SOUTH BENN. KNOB CASAR	B	B3	NCSP	8/2A	2A/9	P4	PART RHA
->CLEAR CREEK WATERSHED NATURAL AREA	MORGANTON SOUTH BENN KNOB	C	B3	NCHR/NCDA	1	5/8/2A	P3	
+CAMP CREEK BLUFF	CASAR	B	B2	PRV	0	2A	P3	
+CAMP CREEK NORTH	CASAR	B	B2	PRV	0	2A	P3	
Burke *C*								
+SMITH CLIFF-HENRY FORK RIVER	VALDESE	C	B5	PRV	0	2A	P4	
Cabarrus *B*								
+CONCORD RING DIKE-JACKSON SCHOOL NATURAL AREA	CONCORD SE	B	B3	NCHR	2A	2A	P4	RHA

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner	Typ Current Status	Intended Status	Prot Urg	Comments
+GEORGEVILLE SCHWEINITZ'S SUNFLOWER SITE	LOCUST	B	B2	NCDOT	4A	4A	P4	MGMT. AGREEMTN
Cabarrus *C*								
+BACK CREEK GABBRO HILL	CONCORD SE	C	B3	PRV	0	2A+	P3	
Caldwell *A*								
+GRANDFATHER MOUNTAIN	GRANDFATHER MOUNTAIN VALLE CRUCIS	A	B1	PRV NPS PRV	2A/7A 2B 1	7A/9 2B 7/8/9	P1	RHA RHA
Caldwell *B*								
+BLOWING ROCK CLIFFS	GRANDFATHER MOUNTAIN	B	B2	PRV	1	2A	P4	
Camden *A*								
+CURRITUCK MAINLAND WETLANDS MEGASITE		A	B1					
+>NORTH RIVER WETLANDS MACROSITE		A	B1					
--->BROAD CREEK MARSHES	CAMDEN POINT	B	B3	PRV	0	2A+	P3	
--->HUNTING CREEK POCOSIN AND MARSH	CAMDEN POINT COINJOCK	C	B3	PRV	0	2A+	P3	
+>THE GREEN SEA	LAKE DRUMMOND SE MOYOCK LAMBS CORNER SOUTH MILLS	C	B3	PRV	0	2A+	P3	
+DISMAL SWAMP MACROSITE		A	B2					
->GREAT DISMAL SWAMP WILDLIFE REFUGE	LAKE DRUMMOND SOUTH MILLS CORAPEAKE SUNBURY LYNCHS CORNER	A	B2	FWS	2B	2B	P4	RHA
->DISMAL SWAMP STATE NATURAL AREA	LAKE DRUMMOND SOUTH MILLS LAKE DRUMMOND SE LYNCHS CORNER	C	B3	NCSP	8/2A	9	P4	RHA
Camden *C*								
+SHIPYARD LANDING NATURAL AREA	ELIZABETH CITY	C	B3	PRV ECSU	0 0	2A+ 2A	P2	
+WHITEHALL SHORES HARDWOOD FOREST	ELIZABETH CITY	C	B2	PRV	0	2A+	P2	
Carteret *A*								
+CROATAN NATIONAL FOREST MEGASITE		A	B1					
+>CROATAN POCOSINS	HADNOT CREEK CATFISH LAKE MASONTOWN MAYSVILLE	A	B2	USFS PRV	2B/6A 0	2B/6A 8/6A	P4	RHA/EWA
+>MASONTOWN POCOSIN	MASONTOWN	C	B3	USFS	1	2B	P3	
->HIBBS ROAD PINE RIDGES	MASONTOWN NEWPORT	A	B2	USFS	0	2B	P3	
->MILLIS ROAD LONGLEAF	MASONTOWN	A	B2	USFS	2B	6A/2B	P4	RHA/POTENTIAL RNA

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
PINE SAVANNA AND POCOSIN								
->PATSY POND COMPLEX	SALTER PATH	A	B2	PRV	0	2B/6A	P2	
				USFS	2B	6A/2B		
->PRINGLE ROAD POCOSIN	MASONTOWN	A	B1	USFS	1	2B	P3	
AND SAND RIDGES	SALTER PATH							
	SWANSBORO							
	HADNOT CREEK							
->WALKERS MILLPOND	NEWPORT	B	B3	PRV	0/2A	2A	P3	PART RHA
->WHITE OAK RIVER-CEDAR	MAYSVILLE	B	B3	USFS	2B	2B	P4	RHA
POINT MARSHES	SWANSBORO							
->FOREST ROAD 177 PINE	MASONTOWN	C	B3	USFS	0	2B	P3	
WOODS								
->HADNOT CREEK NATURAL	MAYSVILLE	C	B3	PRV	2A	2A	P4	RHA
AREA								
->HADNOT CREEK PONDS AND	MAYSVILLE	C	B3	USFS	0	2B	P3	
LONGLEAF WOODS								
->NINE FOOT ROAD/BROAD	SALTER PATH	C	B2	PRV	0	2A+/8	P3	
CREEK FLATWOODS				USFS	1	2B		
->NINE FOOT ROAD/ROBERTS	MASONTOWN	C	B3	PRV	0	2A/8	P2	
ROAD LIMESINK COMPLEX				USFS	1	2B		
->PETTIFORD CREEK	HADNOT CREEK	C	B3	USFS	0	2B	P3	
SAVANNAS	SWANSBORO							
->UNION POINT POCOSIN	NEWPORT	C	B3	USFS	1	2B	P3	
->WILDBERRY WOODS	SALTER PATH	C	B3	PRV	2A	5	P4	RHA
+CAPE LOOKOUT NATIONAL	BEAUFORT	A	B1					
SEASHORE MACROSITE	OTHER							
->CORE BANKS AND	CAPE LOOKOUT	A	B2	NPS	8/2B	8/2B	P4	RHA
PORTSMOUTH ISLAND	HARKERS ISLAND							
	HORSEPEN POINT							
	DAVIS							
	STYRON BAY							
	ATLANTIC							
	WAINWRIGHT ISLAND							
	PORTSMOUTH							
->SHACKLEFORD BANKS	BEAUFORT	A	B2	NPS	8/2B	8/6A/2B	P4	RHA
	HARKERS ISLAND			PRV	0/1	8/6A/2B		
->BARDEN INLET-LIGHTHOUSE	HARKERS ISLAND	B	B3	NC	2A	2A	P4	RHA
CHANNEL NESTING ISLANDS				NPS	2B	2B		RHA
+CEDAR ISLAND NATIONAL	ATLANTIC	A	B2	FWS	2B	2B/6A	P4	RHA
WILDLIFE REFUGE	NORTH BAY							
+PINEY ISLAND	POINT OF MARSH	A	B2	DOD	0	2B	P3	
	LONG BAY							
+THEODORE ROOSEVELT STATE	MANSFIELD	A	B2	LOCAL	0	2A+	P4	
NATURAL AREA				NCSP	8/2A	9		RHA/POTENTIAL DNP
				PRV	0	8/9		
Carteret *B*								
+ATLANTIC NATURAL AREA	ATLANTIC	B	B3	FWS	1	2B	P3	
				DUKE	0	2A+/8		
				PRV	0	2A+		
+BOGUE INLET HERONRY	SWANSBORO	B	B3	AUD	1	2A	P3	
				PRV	0	2A		
+BROWN'S ISLAND	HARKERS ISLAND	B	B3	PRV	0	2A	P3	
+CORE SOUND (WAINWRIGHT)	WAINWRIGHT ISLAND	B	B3	PRV	0	2A+	P3	
NESTING ISLANDS								

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner	Typ	Current Status	Intended Status	Prot Urg	Comments
+EMERALD ISLE WOODS	SWANSBORO	B	B3	PRV		0	8	P1	
+EMERALD ISLE, WEST END BEACH	SWANSBORO	B	B3	PRV		0	2A+	P2	
+MORGAN ISLAND NESTING COLONY	HARKERS ISLAND	B	B3	PRV		0	2A	P3	
+NEW DUMP ISLAND NESTING COLONY	ATLANTIC	B	B3	NC-		2A	2A	P4	RHA
+OCRACOKE INLET BIRD NESTING ISLANDS	PORTSMOUTH	B	B3	AUD		8/2A	9/2A	P4	RHA/PROPOSED DNP
+PHILLIPS AND ANNEX ISLANDS NESTING COLONY	BEAUFORT	B	B3	PRV		1	8	P3	
+RACHEL CARSON NATIONAL ESTUARINE RESERVE	BEAUFORT HARKERS ISLAND	B	B3	NCCM		9	9	P5	DNP
+SALTER PATH MARITIME FOREST	SALTER PATH	B	B2	PRV		1	2A/8	P1	
+SANDBAG ISLAND NESTING COLONY	HARKERS ISLAND	B	B3	NC-		2A	2A	P3	RHA
Carteret *C*									
+BRANT ISLAND NESTING COLONY	BEAUFORT	C	B4	NC-		2A	2A	P4	RHA
+CEDAR ISLAND SHELL MIDDEN	NORTH BAY	C	B3	PRV?		0	2A	P3	
+FORT MACON STATE PARK	BEAUFORT	C	B3	NCSP		2A	2A	P4	
+HOOP POLE CREEK MARITIME FOREST	MANSFIELD	C	B3	PRV		1	2A+	P1	
+INDIAN BEACH MARITIME FOREST	MANSFIELD SALTER PATH	C	B3	PRV		1	2A/8	P1	
+NEWPORT RIVER MARSH	MANSFIELD NEWPORT	C	B3	TNC		8	2A	P4	
+NORTH RIVER MARSHES	WILLISTON CORE CREEK	C	B3	PRV PRV TNC		2A 0 8	2A 2A	P3	RHA
+SEA GATE WOODS	CORE CREEK	C	B3	PRV		1	2A+	P3	PART DESTROYED
Caswell *A*									
+FROGSBORO UPLAND DEPRESSION FOREST	RIDGEVILLE	A	B2	NCWRC		1	2A/9	P3	PART DESTROYED
Caswell *B*									
+CANE BRANCH SLOPE	RINGGOLD	B	B3	PRV		0	2A+	P3	
+CASWELL UPLAND HARDWOOD FOREST	YANCEYVILLE ANDERSON CHERRY	B	B3	NCWRC NSL PRV		1 2A 0	2A 2A 2A+	P3	RHA
Caswell *C*									
+STONY CREEK FLATS	CHERRY GROVE	C	B3	PRV		0	2A+	P3	
Catawba *A*									
+CATAWBA COUNTY WILDLIFE CLUB HEARTLEAF SITE	BANOAK	A	B2	PRV		1/2A	2A	P4	PART RHA
Chatham *A*									
+ROCKY RIVER-DEEP RIVER AQUATIC HABITAT	COLON	A	B1	PW		1	6C	P1	POSSIBLE ORW/HQW

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
Chatham *B*								
+JORDAN LAKE NATURAL AREAS MACROSITE	MERRY OAKS FARRINGTON GREEN LEVEL NEW HILL SOUTHWEST DURHAM	B						
->JORDAN LAKE BALD EAGLE HABITAT	GREEN LEVEL	A	B2	NCSU COE/WRC	1 1	2A 2B	P3	
->BIG WOODS-OLD QUARRY CREEK	FARRINGTON	C	B3	COE	2B	2B	P4	RHA
->MORGAN CREEK SWAMP	FARRINGTON	C	B3	COE	0	2B	P3	
->NORTHEAST CREEK SWAMP	GREEN LEVEL	C	B3	COE	0	2B	P3	
->ROBESON CREEK	MERRY OAKS	C	B3	COE	2B	2B	P4	RHA
->WEAVER CREEK PINE FOREST	MERRY OAKS NEW HILL	C	B3	COE	2B	2B	P4	RHA
+DONNELLEY BOG	CRUTCHFIELD CROSSROADS SILER CITY	B	B2	TNC	8	8/2A	P4	
+WHITE PINES NATURAL AREA	COLON	B	B3	TLC PRV PRV	2A 1 2A	2A 2A/8/9 2A/5	P3	RHA RHA
Chatham *C*								
+BENNETT MOUNTAIN	FARRINGTON	C	B3	PRV	0	2A+	P3	
+CAPE FEAR RIVER-BUCKHORN LEVEES	COKESBURY	C	B3	PRV	0	2A+	P3	
Cherokee *B*								
+DIE BEND	MURPHY	B		PRV USFS	0 0	2A+ 2B		
Cherokee *C*								
+GIPP CREEK	ANDREWS ROBBINSVILLE	C		USFS	0	2B		
Chowan *B*								
+CHOWAN SWAMP-BENNETTS CREEK-CATHERINE CREEK	MINTONSVILLE HARRELLSVILLE GATESVILLE WINTON MERCHANTS MILLPOND	B	B3	PRV NCFF NCWRC	0 1/6 1	2A/8/9 8/9 9	P2	
+DRUMMOND POINT WOODS	YEOPIM RIVER	B	B3	PRV	0	2A+	P2	
Chowan *C*								
+CHERRY POINT WOODS	EDENTON	C	B4	PRV	0	2A+	P2	
+GALLBERRY SWAMP	VALHALLA	C	B4	NC PRV	0 0	2A 2A+	P2	UNALLOCATED STATE LAND
+HOLIDAY ISLAND	MINTONSVILLE	C	B3	PRV	0	2A+	P3	
+LOWER INDIAN CREEK SWAMP AND RAVINE	VALHALLA	C	B3	PRV	0	2A+	P3	
+REEDY POINT SWAMP	EDENHOUSE EDENTON	C	B3	PRV	0	2A+	P3	
+SNOW HILL BAY	HOBBSVILLE	C	B3	PRV	0	2A+	P3	

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+WARWICK CREEK OAK FLATS AND SLOPES	MINTONSVILLE	C	B3	PRV PRV		0 0	2A+ 2A/7A		
Clay *A*									
+BUCK CREEK SERPENTINIZED OLIVINE BARRENS	RAINBOW SPRINGS	A	B1	USFS		I/2B	6A/2B	P3	PARTIAL RHA
+CHUNKY GAL-RILEY KNOB	RAINBOW SPRINGS SHOOTING CREEK	A	B2	USFS		2B	6A/2B	P4	RHA
+ELLER SEEP	HIAWASSEE	A	B1	PRV TNC		0 8	8 8/2A	P4	
Clay *B*									
+FIRES CREEK WATERSHED	HAYESVILLE ANDREWS	B	B3	USFS PRV		I/6C 0	2B/6C	P3	ORW DESIGNATION
+STANDING INDIAN MOUNTAIN	RAINBOW SPRINGS	B	B2	USFS		6A/2B	6A/2B	P4	RHA/EWA
+WHITE OAK STAMP	RAINBOW SPRINGS	B	B3	USFS		2B	6A/2B	P4	RHA
Clay *C*									
+BUCK CREEK BOG	SHOOTING CREEK	C	B3	USFS		0	2B	P3	
+CLEAR CREEK BOG	TOPTON	C	B3	USFS		0	2B	P3	
+LEDFORD SEEP	HIWASSEE	C	B3	PRV		1	2A+	P2	PROBABLY NOT VIABLE
Cleveland *A*									
+BRUSHY CREEK BLUFF	POLKVILLE	A	B2	PRV		0	2A	P3	
Cleveland *C*									
+SANDY RUN BLUFF	BOILING SPRINGS SOUTH	C	B3	PRV		0	2A+	P3	
Columbus *A*									
+WACCAMAW RIVER WETLANDS MEGASITE		A	B1						
+>MIDDLE WACCAMAW RIVER MACROSITE	FREELAND PIREWAY	A	B2						
--->REEVES AREA FLOODPLAIN	FREELAND	B	B3	PRV		0/1	2A/8	P3	
+>UPPER WACCAMAW RIVER SWAMP	LAKE WACCAMAW WEST OLD DOCK	A	B1	NCSP PRV		1/2A 0	2A/9 2A/8	P3	PART RHA
->LAKE WACCAMAW STATE LAKE	LAKE WACCAMAW EAST LAKE WACCAMAW WEST OLD DOCK	A	B1	NCSP		2A	9/6C	P4	RHA
->WACCAMAW RIVER AQUATIC HABITAT	OLD DOCK FREELAND NAKINA PIREWAY LAKE WACCAMAW WEST LONGS	A	B1	PW		1	6C	P3	
->WARD'S LAKE	FREELAND	A	B2	PRV		1	8	P3	
->JUNIPER CREEK FLOODPLAIN	OLD DOCK JUNIPER CREEK EXUM	C	B3	PRV		0	8/2A	P3	
->LAKE WACCAMAW STATE PARK	LAKE WACCAMAW EAST LAKE WACCAMAW WEST OLD DOCK	C	B3	NCSP		1/2A	1/2A/9	P3	PART RHA
->WACCAMAW RIVER	FREELAND	C	B3	PRV		0	2A+	P3	

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ELEOCHARIS BACKWATER								
->WACCAMAW RIVER OXBOW SITE	LONGS CALABASH	C	B3	PRV	0	2A+	P1	PARTIALLY DAMAGED
+SCHULKENS SAVANNAS	OLD DOCK NAKINA	A	B2	PRV	1	8/2A	P1	
Columbus *B*								
+LUMBER RIVER MACROSITE		B	B2					
->BIG SANDY RIDGE AND SWAMP	FAIR BLUFF	B	B3	PRV	0	8/2A	P3	
->NET HOLE-BUCK LANDING SWAMP	EVERGREEN SOUTHEAST LUMBERTON	B	B3	PRV	0	8/2A	P3	
->BLUFF SWAMP	EVERGREEN	C	B3	PRV	0	2A+	P3	
->PRINCESS ANNE SWAMP	FAIRMONT FAIR BLUFF	C	B3	PRV	0	2A+	P3	
+CYPRESS CREEK/HWY 130 BOG AND SAVANNA	NAKINA	B	B3	PRV	0/2A	2A	P3	PART RHA
+MARK PINE BAY COOLEY'S MEADOWRUE SITE	OLD DOCK	B	B1	PRV	1	2A/1A	P3	
+NAKINA SAVANNA	NAKINA	B	B2	PRV	0	2A+	P3	
Columbus *C*								
+NEILS EDDY LANDING	ACME	C	B3	PRV	0	2A	P3	
*Continental Shelf**B*								
+BOGUE INLET OUTCROP	NEW RIVER-CAPE FEAR NOAA	B	B2	NCMF	2A	2A	P4	
+MASONBORO OUTCROP	NEW RIVER-CAPE FEAR NOAA	B	B2	NCMF	2A	2A	P4	
+NEW RIVER INLET OUTCROP	NEW RIVER-CAPE FEAR NOAA	B	B2	NCMF	2A	2A	P4	
+TOPSAIL OUTCROP	NEW RIVER-CAPE FEAR NOAA	B	B2	NCMF	2A	2A	P4	
Craven *A*								
+CROATAN NATIONAL FOREST MEGASITE	:	A	B1					
+>CROATAN POCOSINS	HADNOT CREEK CATFISH LAKE MASONTOWN MAYSVILLE	A	B2	USFS PRV	2B/6A 0	2B/6A 8/6A	P4	RHA/EWA
->LAKE ELLIS SIMON	MAYSVILLE MASONTOWN	A	B2	PRV	2A	7A	P4	RHA
->GREAT LAKE SWAMP FOREST	HADNOT CREEK CATFISH LAKE	B	B2	USFS	1/2B	2B	P4	RHA/EWA
->LITTLE ROAD LONGLEAF SAVANNAS	CATFISH LAKE	B	B3	USFS	2B	2B	P4	RHA
->FLANNER BEACH	HAVELOCK	C	B3	USFS	2B/1	2B	P2	RHA
->GUN SWAMP BOTTOMLAND	HAVELOCK	C	B3	PRV USFS	1 2B	8/2A/2B 2B	P4	RHA

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HARDWOOD FOREST									
->LITTLE LAKE	MASONTOWN	C	B3	PRV		1	2A/8	P3	
->PINECLIFF NATURAL AREA	CHERRY POINT	C	B3	USFS PRV		0 0	2B 2A+	P3	
->UNION POINT POCOSIN	NEWPORT	C	B3	USFS		1	2B	P3	
+REEDY BRANCH	NEW BERN	A	B2	PRV		0	2A+	P3	
Craven *B*									
+FORT BARNWELL BLUFFS	FORT BARNWELL	B	B3	PRV		0	2A+	P3	
+SHELL LANDING	JASPER	B	B3	PRV		2A	2A	P4	RHA
Craven *C*									
+DEEP GULLY	POLLOCKSVILLE	C	B3	PRV		0	2A+	P3	
+DEVIL'S GARDEN FLATWOODS	REELSBORO UPPER BROAD CREEK	C	B3	PRV		0	2A+	P3	
+NEUSE RIVER FLOODPLAIN AND BLUFF SYSTEN	AYDEN VANCEBORO JASPER ASKIN	C	B3	PRV		0	2A+	P3	
+TRENT RIVER-BRICE CREEK MARSH	NEW BERN	C	B3	PRV		0	2A	P3	
+YUCCA SAND RIDGE	COVE CITY	C	B3	PRV		0	2A+	P3	
Cumberland *A*									
+BLADEN LAKES NATURAL AREAS MEGASITE		A	B1						
->BUSHY LAKE STATE NATURAL AREA	AUTRYVILLE JEROME	A	B1	NCSP PRV		2A/8 1	9 8/9	P3	RHA/POTENTIAL DED
->MILL POND BAY NATURAL AREA	AMMON	A	B2	PRV PRV		1 1	2A/7A 2A+	P3	RHA
+FORT BRAGG MEGASITE	MANY QUADS	A	B1						
->FORT BRAGG MAC RIDGE IMPACT AREA	CLIFDALE OVERHILLS	A	B1	DOD		1	2B/6A	P1	
->BIG GALLBERRY BAY	JEROME	C	B3	PRV		0	2A+	P3	
+OVERHILLS ESTATE	OVERHILLS LOBELIA	A	B1	PRV		1	7A	P3	
Cumberland *B*									
+BONNIE DOONE NATURAL AREA	FAYETTEVILLE	B	B3	PRV LOCAL		2A 2A/2A	2A	P4	RHA RHA
+CAPE FEAR RIVER BLUFF	WADE.	B	B3	PRV		2A	2A	P4	RHA
+GORDON BUTLER-HOPE MILLS PRESERVE	HOPE MILLS	B	B3	PRV NCBG		0 2A	2A 2A	P1	 RHA
+HOPE MILLS- LITTLE ROCKFISH CREEK	HOPE MILLS	B	B3	PRV		0	7/8	P2	
+MANCHESTER SANDHILLS	MANCHESTER	B	B3	PRV		1	2A+	P3	
Cumberland *C*									
+CARVER'S FALLS	SLOCOMB	C	B3	PRV		2A	2A	P4	RHA
+CLARK PARK NATURAL AREA	VANDER	C	B3	LOCAL		2A	2A	P4	RHA
+CLARK SANDHILLS	MANCHESTER SLOCOMB	C	B3	PRV		0	2A+	P3	
+DUCK POND SWAMP CAROLINA BAYS	VANDER	C	B3	PRV		0	2A+	P3	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
Currituck *A*								
+CURRITUCK MAINLAND WETLANDS MEGASITE		A	BI					
+>BUCKSKIN CREEK-GREAT SWAMP	CURRITUCK	B	B2	PRV	0	2A+	P2	
+>NORTH RIVER WETLANDS MACROSITE		A	BI					
--->INDIANTOWN CREEK-NORTH RIVER CYPRESS FOREST	SHILOH CURRITUCK	B	B2	PRV	0	2A+	P3	
--->NORTH RIVER/DEEP CREEK MARSHES AND FOREST	BARCO	B	B3	PRV	0/2A	7/2A	P3	PART RHA
+>NORTHWEST RIVER-NORTH LANDING RIVER WETLANDS MACROSITE		A						
--->NELLIE BELL POND, MARSH, AND CEDAR SWAMP	CREEDS	A	B3	PRV	0	2A+	P3	
--->NORTHWEST RIVER MARSH GAME LAND	MOYOCK CREEDS	A	B3	NCWRC	1	2A	P3	
--->GIBBS POINT	CREEDS	B	B3	PRV	0	2A+	P3	
--->GIBBS WOODS	CREEDS	B	B3	PRV	0	2A+	P3	
--->TROUBLESOME POINT OAK FLATS AND MARSH	CREEDS	B	B3	PRV	0	2A+	P3	
--->LOWER TULL CREEK WOODS AND MARSH	CURRITUCK	C	B3	PRV	0	2A+	P3	
--->TULL BAY MARSHES	CREEDS	C	B3	PRV	0	2A+	P3	
->CHURCH ISLAND MARSH	BARCO	B	B3	PRV	0	2A+	P3	
->MAMIE MARSHES AND PONDS	JARVISBURG POINT HARBOR	B	B3	PRV	0	2A+	P3	
->MAPLE SWAMP GORDONIA FOREST	COINJOCK	B	B3	PRV	0	7/8	P3	
->BELL POINT MARSH	BARCO	C	B3	PRV	0	2A	P3	
->SLIGO BIG TREES	CURRITUCK	C	B3	PRV	0	2A	P3	
+>THE GREEN SEA	LAKE DRUMMOND SE MOYOCK LAMBS CORNER SOUTH MILLS	C	B3	PRV	0	2A+	P3	
Currituck *B*								
+>CURRITUCK BANKS COROLLA NATURAL AREA	COROLLA	B	B3	FWS TNC NCCM	1 8 9	2B 8/9 9	P4	 DNP/ESN
->CURRITUCK BANKS-SWAN ISLAND NATURAL AREA	COROLLA BARCO	B	B3	FWS PRV	1 0/1	6A/2B 8/6A/2B	P3	
->CURRITUCK CLUB NATURAL AREA	MOSSEY ISLANDS	B	B3	PRV	0	8	P1	FORMER RHA SOLD
->MONKEY ISLAND HERONRY	COROLLA	B	B3	LOCAL	2A	2A	P4	RHA
->PINE ISLAND AUDUBON SANCTUARY	MOSSEY ISLANDS JARVISBURG	B	B3	AUD PRV	1 1	9	P2	REGISTRY RESCINDED PLANNED FOR DEVELOPEMENT
+CURRITUCK OUTER BANKS MACROSITE	COROLLA MOSSEY ISLAND KNOTTS ISLAND	B	B2					
+GREAT MARSH	KNOTTS ISLAND BARCO	B	B3	PRV FWS	0 2B/0	2A 2B	P3	 PART RHA

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+NORTHWEST BACKWOODS	MOYOCK	B	B3	PRV		0	2A+	P3	
Currituck *C*									
+HARBINGER MARSHES	POINT HARBOR	C	B3	PRV		0	2A+	P3	
+MAMIE UPLAND FOREST AND CAROLINA BAY	JARVISBURG	C	B4	PRV		0	2A+	P2	
Dare *A*									
+ALLIGATOR RIVER WETLANDS MEGASITE		A	B2						
+>DURANT ISLAND	EAST LAKE	C	B3	PRV		1	2A+	P3	
->ALLIGATOR RIVER SWAMP FOREST	ENGELHARD NW FAIRFIELD NE BUFFALO CITY	A	B2	DOD FWS PRV		2B 8 1	6A/2B 6A/2B 8/6A/2B	P3	PART RHA, REGISTRY THREATENED
->FAIRCLOTH ROAD POND PINE POCOSIN	ENGELHARD NE ENGELHARD EAST ENGELHARD NW LONG SHOAL POINT	A	B2	DOD		2B	6A/2B	P2	RHA
->US 264 LOW POCOSIN (FLOATING PEAT BOG)	ENGELHARD NE ENGELHARD NW LONG SHOAL	A	B2	DOD FWS		2B 8	2B 8/2B/6A	P4	RHA
->ALLIGATOR RIVER REFUGE--CENTRAL SECTION	BUFFALO CITY EAST LAKE SE EAST LAKE	C	B3	FWS		8	2B/6A	P3	
->ALLIGATOR RIVER REFUGE--SOUTHEAST MARSHES	LONG SHOAL POINT ENGLEHARD NE STUMPY P	C	B3	FWS		8	2B/6A	P3	
->MASHOES MARSHES	MANNS HARBOR	C	B3	FWS		8	2B/6A	P3	
->MASHOES POCOSIN	MANNS HARBOR EAST LAKE	C	B3	FWS		8	2B/6A	P3	
->ROANOKE-STUMPY POINT MARSHES AND POCOSIN	MANNS HARBOR WANCHESE EAST LAKE SE ENGLEHARD NE	C	B3	FWS		8	2B/6C	P3	
+CAPE HATTERAS NAT'L SEASHORE MACROSITE		A	B1						
->BUXTON WOODS	BUXTON CAPE HATTERAS	A	B1	NPS NCCM PRV		2B 1 0/1	2B 9 8/9	P1	RHA
->CAPE HATTERAS POINT	CAPE HATTERAS	A	B1	NPS		2B	2B	P4	RHA
->PEA ISLAND NATIONAL WILDLIFE REFUGE	OREGON INLET PEA ISLAND	A	B3	FWS		8/2B	8/2B	P4	PART RHA
->BODIE ISLAND LIGHTHOUSE POND	OREGON INLET	B	B3	NPS		2B	2B	P4	RHA
->BODIE ISLAND ROADSIDE PONDS AND MARSHES	ROANOKE ISLAND NE OREGON INLET	B	B3	NPS		2B	2B	P4	RHA
->HATTERAS ISLAND--MIDDLE SECTION	LITTLE KINNIKEET RODANTHE	B	B3	NPS		8	2B	P3	
->HATTERAS NESTING COLONY	HATTERAS	B	B3	NC		2A	2A	P4	RHA
->HATTERAS SAND FLATS	HATTERAS	B	B3	NPS		2B	2B	P4	RHA
->TURTLE POND AND (CAPE HATTERAS) LIGHTHOUSE POND	BUXTON	C	B3	NPS		2B	2B	P4	RHA
+JOCKEY'S RIDGE STATE PARK	MANTEO	A	B4	NCSP		2A	2A	P4	RHA

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+KITTY HAWK WOODS	KITTY HAWK	A	B1	PRV	1	8/9	P1	
+NAGS HEAD WOODS	MANTEO	A	B1	PRV	0	7/8/9/2A	P2	
	KITTY HAWK			LOCAL	1/2A	9		PART RHA
				TNC	8/9	8/9		DNP
+SOUTHERN SHORES CYPRESS SWAMP	KITTY HAWK	A	B2	PRV	2A	2A/9	P4	RHA
Dare *B*								
+OREGON INLET-ROANOKE SOUND BIRD NESTING ISLANDS	OREGON INLET	B	B3	NC	0/2A	2A	P4	RHA
				PRV	0	2A		
+ROANOKE ISLAND JUNCUS MARSH	MANTEO	B	B3	PRV/TNC	0/7A	2A/7A	P3	TNC EASEMENT ON PART
Dare *C*								
+COLINGTON WOODS	KITTY HAWK MANTEO	C	B3	PRV	0	2A+	P3	
+FORT RALEIGH MARITIME FOREST	MANTEO	C	B3	NPS	1	2B	P4	
				PRV	0	2A+		
+GULL ISLAND NESTING COLONY	LITTLE KINNAKEET	C	B3	PRV?	0	2A+	P3	
Davidson *A*								
+BEAVERDAM CREEK/GRASSY FORK HEARTLEAF PLANTAIN SITE	HANDY	A	B2	PRV	0/2A/4A	2A/4A/6C	P2	TNC HAS MGMT. AGREEMENT WITH SOME OWNERS
+FLAT SWAMP CREEK HEARTLEAF PLANTAIN SITE	GRIST MOUNTAIN	A	B2	PRV	0	2A+	P2	
Davidson *C*								
+BOONE'S CAVE STATE PARK	CHURCHLAND	C	B3	NCSP	2A	2A	P4	RHA
Davie *A*								
+COOLEEMEE PLANTATION ORBICULAR DIORITE AREA	CHURCHLAND	A	B5	PRV	2A	2A	P5	RHA
Davie *C*								
+COOLEEMEE PLANTATION-YADKIN RIVER SLOPES	CHURCHLAND	C	B3	PRV	1	2A	P3	DECLINED RHA
+DAVIE FAULT	FARMINGTON	C	B5	PRV	0	2A+	P3	
Duplin *B*								
+ANGOLA BAY GAME LAND	MAPLE HILL	B	B2	PRV	0	8/2A+	P3	
				WRC	1	9/2A		
Duplin *C*								
+MAGNOLIA WELL LIMESINK	WARSAW SOUTH	C	B5	PRV	1	2A+	P3	
Durham *A*								
+ENO RIVER DIABASE SILL	NORTHEAST DURHAM	A	B1	PRV	2A	2A/7A	P2	PART RHA
Durham *B*								
+DUKE FOREST NATURAL AREAS MACROSITE		B						

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->GATE 9 POND	NORTHWEST DURHAM	C	B3	PRV DUKE	0 1	2A+ 2A	P3	
->LOBLOLLY PINE ALLUVIAL SITE	NORTHWEST DURHAM	C	B4	DUKE	1	2A	P3	DECLINED RHA
->LOBLOLLY-SHORTLEAF PINE STAND	NORTHWEST DURHAM	C	B4	DUKE	1	2A	P3	DECLINED RHA
+FALLS LAKE NATURAL AREAS MACROSITE	CREEDMORE BAYLEAF NORTHEAST DURHAM WAKE FOREST	B	B2				P4	
->CATSBURG NATURAL AREA	NORTHEAST DURHAM	B	B3	COE/WRC	2B	2B	P4	RHA
->FLAT RIVER BEND	LAKE MICHIE	B	B3	COE/WRC	2B	2B	P4	RHA
->PENNY'S BEND-ENO RIVER	NORTHEAST DURHAM	B	B3	COE/NCBG	2B	2B	P4	RHA
->CABIN BRANCH CREEK	NORTHEAST DURHAM	C	B3	COE/WRC	2B	2B	P4	RHA
->LICK CREEK BOTTOMLAND FOREST	BAYLEAF	C	B3	COE/WRC	2B	2B	P4	RHA
+JORDAN LAKE NATURAL AREAS MACROSITE	MERRY OAKS FARRINGTON GREEN LEVEL NEW HILL SOUTHWEST DURHAM	B						
->NEW HOPE CREEK BOTTOMLAND FOREST	SOUTHWEST DURHAM	B	B2	COE/WRC	1/2B	2B	P4	PART RHA
->MORGAN CREEK SWAMP	CHAPEL HILL	C	B4	COE	1	2B	P2	
->MORGAN CREEK SWAMP	FARRINGTON	C	B3	COE	0	2B	P3	
+ENO RIVER BLUE WILD INDIGO SLOPE	NORTHEAST DURHAM	B	B2	LLC	8/2A	8/2A	P4	RHA
+FLAT RIVER SLOPES ABOVE LAKE MICHIE	ROUGEMONT LAKE MICHIE	B	B3	NCSU LOCAL	9 1	9 2A	P4	DED
Durham *C*								
+BENNETT PLACE	NORTHWEST DURHAM	C	B3	NCCUL	2A	2A	P4	RHA
+ENO RIVER STATE PARK	HILLSBOROUGH NORTHWEST DURHAM	C	B3	PRV NCSP	1 8/2A	8 8/2A	P2	PART RHA
+HILL FOREST CHESTNUT OAK-SHORTLEAF PINE FOREST	LAKE MICHIE	C	B3	NCSU	2A/2A		P4	RHA
+HILL FOREST DIAL CREEK HARDWOOD FOREST	LAKE MICHIE	C	B3	NCSU	2A/2A		P4	RHA
+HILL FOREST SLOCUM CAMP HARDWOOD FOREST	ROUGEMONT	C	B3	NCSU	2A	2A	P4	RHA
Edgecombe *A*								
+SWIFT CREEK AQUATIC HABITAT	DRAKE WHITAKERS HARTSEASE ESSEX RED OAK TARBORO VICKSBORO INGELSIDE	A	B1	PW	1	6C	P1	POSSIBLE HQW
+TAR RIVER (FRANKLIN/NASH/EDGECOMBE) AQUATIC HAB.	TARBORO BUNN EAST KITTRELL INGLESIDE LOUISBURG	A	B2	PW	0	6C	P1	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
	JUSTICE SPRING HOPE BAILEY ROCKY MOUNT SPEED OLD SPARTA HARTSEASE							
Edgecombe *B*								
+SWIFT CREEK SWAMP FOREST	WHITAKERS	B	B3	PRV	0	2A+	P2	
Edgecombe *C*								
+BEECH BRANCH-TAR RIVER MEANDER LOOP	HARTSEASE	C	B3	PRV	0	2A+	P3	
+COKEY SWAMP	HARTSEASE	C	B3	PRV	0	2A+	P3	
+CONETOE CREEK BOTTOMLAND FOREST	CONETOE	C	B3	PRV	0	2A+	P3	
+FISHING CREEK FLOODPLAIN FORESTS	TARBORO	C	B3	PRV	0	2A	P3	
+MILDRED WET HARDWOOD FOREST	CONETOE	C	B3	PRV	0	2A	P2	
+TAR RIVER FLOODPLAIN	OLD SPARTA TARBORO ROCKY MOUNT SPEED.	C	B3	PRV	0	2A+	P3	
Forsyth *C*								
+BELEWS CREEK BOG/MARSHES	BELEWS CREEK	C	B3	PRV	0	2A+	P2	
+YADKIN RIVER BLUFFS	VIENNA	C	B3	PRV	0	2A+	P3	
Franklin *A*								
+CROOKED CREEK AQUATIC HABITAT	BUNN EAST BUNN WEST LOUISBURG	A	B1	PW	0	6C	P2	
+NORRIS CREEK MICHAUX'S SUMAC SITE	BUNN WEST	A	B1	PRV	1	2A/4A	P3	
+SWIFT CREEK AQUATIC HABITAT	DRAKE WHITAKERS HARTSEASE ESSEX RED OAK TARBORO VICKSBORO INGELSIDE	A	B1	PW	1	6C	P1	POSSIBLE HQW
+TAR RIVER (FRANKLIN/NASH/EDGECOMBE) AQUATIC HAB.	TARBORO BUNN EAST KITTRELL INGLESIDE LOUISBURG JUSTICE SPRING HOPE BAILEY ROCKY MOUNT SPEED OLD SPARTA	A	B2	PW	0	6C	P1	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
	HARTSEASE							
Franklin *B*								
+BIG PEACHTREE CREEK FLATROCK	CASTALIA	B	B3	PRV	0	2A	P3	
+BOG FLATROCK	JUSTICE	B	B3	PRV	0	2A+	P3	
+CEDAR CREEK AQUATIC HABITAT	LOUISBURG	B	B2	PW	0	6C	P3	
+COUNTY LINE FLATROCKS	WILTON	B	B3	PRV	0	2A+	P3	
+OVERTON ROCK	JUSTICE	B	B2	PRV	2A	2A/8	P4	RHA
Franklin *C*								
+BUNN FLATROCK	BUNN WEST	C	B3	PRV	0	2A+	P3	
+CEDAR ROCK CHURCH FLATROCK	JUSTICE	C	B3	PRV	0	2A+	P3	
+TAR RIVER LEVEE	INGLESIDE	C	B3	PRV	0	2A+	P3	
Gaston *B*								
+CROWDER'S MOUNTAIN STATE PARK	KINGS MOUNTAIN	B	B2	NCSP PRV	0/8/2A 0	8/2A 8/2A	P2	RHA
Gaston *C*								
+GASTONIA GRANITIC FLATROCK	GASTONIA SOUTH	C	B3	PRV	0	2A+	P3	
+RANKIN HARDWOOD FOREST	MOUNT HOLLY	C	B3	PRV	1	2A/7A	P4	
Gates *A*								
+DISMAL SWAMP MACROSITE		A	B2					
->GREAT DISMAL SWAMP WILDLIFE REFUGE	LAKE DRUMMOND SOUTH MILLS CORAPEAKE SUNBURY LYNCHS CORNER	A	B2	FWS	2B	2B	P4	RHA
->DISMAL SWAMP FERN HABITAT	SUNBURY	B	B4	PRV	0/2A	2A	P2	PART RHA
Gates *B*								
+CHOWAN SWAMP-BENNETTS CREEK-CATHERINE CREEK	MINTONSVILLE HARRELLSVILLE GATESVILLE WINTON MERCHANTS MILLPOND	B	B3	PRV NCFF NCWRC	0 1/6 1	2A/8/9 8/9 9	P2	
->CHOWAN SWAMP STATE NATURAL AREA	MINTONSVILLE HARRELLSVILLE GATESVILLE MERCHANTS MILLPOND MINTONSVILLE	C	B3	NCSP	1	2A	P4	
+CHOWAN SAND BANKS	WINTON	B	B3	PRV	1	7/8	P1	
+MERCHANTS MILLPOND STATE PARK	MERCHANTS MILLPOND SUNBURY	B	B2	NCSP PRV	8/2A 8	9 9	P3	RHA
Gates *C*								
+BLACK MINGLE POCOSIN	WHALEYVILLE	C	B3	PRV	2A+		P1	
+HORSEPEN POCOSIN	GATESVILLE	C	B3	PRV	0	2A+	P2	
+WARWICK CREEK OAK FLATS	MINTONSVILLE	C	B3	PRV	0	2A+		

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AND SLOPES				PRV	0	2A/7A		
Graham *A*								
+JOYCE KILMER WILDERNESS AREA	SANTEETLAH CREEK TAPOCO	A	B1	USFS	6A/2B	6A/2B	P5	RHA/EWA
+CHEOAH RIVER FLOODPLAIN	TAPOCO FONTANA DAM	A	B1	PRV USFS	0 0	8/2B 2B	P3	
Graham *B*								
+SANTEETLAH BLUFFS	SANTEETLAH CREEK BIG JUNCTION	B	B3	USFS	2B	6A/2B	P4	RHA/PROPOSED RNA
Graham *C*								
+STRATTON MEADOWS-HAW KNOB	BIG JUNCTION	C	B2	USFS	0	2B	P2	
Granville *A*								
+BUTNER NATURAL AREAS MACROSITE		A	B1					
->KNAP OF REEDS CREEK DIABASE-CLEARINGS AND LEVEE	LAKE MICHIE	A	B2	COE/WRC	2B	2B	P4	RHA
->PICTURE CREEK DIABASE BARRENS	STEM	A	B1	NCDA	1	9	P1	
->SOUTH BUTNER CEDAR GLADES	NORTHEAST DURHAM	A	B1	NCHR	2A	2A	P4	RHA
->KNAP OF REEDS CREEK DIABASE-FOREST AND GLADES	LAKE MICHIE	B	B2	NCHR	1	2A	P3	
->NORTHSIDE SMOOTH CONEFLOWER SITE	NORTHEAST DURHAM	B	B3	COE/WRC	2B	2B	P4	RHA
->SOUTH BUTNER DIABASE SWAMP	NORTHEAST DURHAM	B	B3	NCHR	1	2A	P2	PROPOSED FOR RHA
->SOUTH BUTNER DIABASE-PINE FOREST	NORTHEAST DURHAM	B	B3	PRV	0	2A	P2	PART DESTROYED
->UMSTEAD HOSPITAL PINE-OAK FOREST	LAKE MICHIE	B	B3	NCHR	1	2A	P3	
->KNAP OF REEDS CREEK RAVINE	LAKE MICHIE	C	B4	NCDA	1	2A	P4	
->MURDOCH CENTER DIABASE SILL	STEM	C	B3	PRV NCHR/PRV	0 1/2C	2A+ 2A/2C	P3	MANAGEMENT AGREEMENT FOR POWERLINE MGMT.
+GOSHEN GABBRO FOREST	TRIPLE SPRINGS SATTERWHITE	A	B2	PRV	1	8/9	P1	
+TAR RIVER (GRANVILLE) AQUATIC HABITAT	MORIAH BEREA STEM WILTON	A	B1	PW	1	6C/8	P1	
Granville *B*								
+FALLS LAKE NATURAL AREAS MACROSITE	CREEDMORE BAYLEAF NORTHEAST DURHAM WAKE FOREST	B	B2				P4	
->BEAVERDAM LAKE SWAMPS AND ARKOSE OUTCROPS	CREEDMOOR	B	B3	COE/WRC	2B	2B	P4	RHA

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+DIABASE SILL NEAR CLAY	WILTON	B	B3	PRV	0	2A+	P3	
+SOUTH BUTNER HARDWOOD FOREST	NORTHEAST DURHAM	B	B3	NCHR	1	2A	P2	
Granville *C*								
+CREEDMOOR LAKE DIABASE AREA	STEM	C	B3	PRV	0	2A+	P3	
+DENNYS STORE GABBRO FOREST	TRIPLE SPRINGS	C	B3	PRV	0	2A+	P2	
+FORD CREEK-TAR RIVER SLOPES	WILTON	C	B3	PRV	0	2A+	P3	
+PYROPHYLLITE RIDGE MONADNOCKS	MORIAH	C	B3	PRV	0	2A+	P3	
+SATTERWHITE MONADNOCK	SATTERWHITE	C	B3	PRV PRV	0 0	2A+ 2A+	P3	
Guilford *C*								
+HAGAN STONE PARK	CLIMAX	C	B3	LOCAL	1	2A	P3	
+JAMESTOWN MEANDER SCARS	HIGH POINT EAST	C	B5	PRV	0	2A+	P4	
Halifax *A*								
+ROANOKE RIVER MEGASITE		A	B1					
->BUZZARD POINT	WOODVILLE PALMYRA	B	B3	NCWRC	8	8/6A	P4	
->HILLS FERRY	PALMYRA	B	B3	PRV	1	2A/7A	P3	
->LARKSPUR RIDGE	HALIFAX	B	B3	PRV	2A	8/2A	P3	RHA
->ROANOKE BIG OAK WOODS	HALIFAX	B	B3	PRV	2A	2A	P4	RHA
->TEMPLE ROANOKE RIVER FOREST	NORFLEET	B	B3	PRV	1	2A	P3	
->VENTOSA PLANTATION	NORFLEET PALMYRA	B	B3	PRV	2A	8/2A	P3	RHA BUT PART CUT
->PHLOX WOODS	WELDON	C	B3	PRV	2A	2A	P4	RHA
->PIERCE'S FARM HERONRY	WELDON	C	B3	PRV	0	2A+	P3	
Halifax *C*								
+MEDOC MOUNTAIN STATE PARK	HOLLISTER AURELIAN SPRINGS ESSEX RINGWOOD	C	B3	NCSP	2A	2A	P4	RHA
Harnett *A*								
+FORT BRAGG MEGASITE	MANY QUADS	A	B1					
+NEILLS CREEK AQUATIC HABITAT	LILLINGTON	A	B2	PW	0	6C	P2	
+OVERHILLS ESTATE	OVERHILLS LOBELIA	A	B1	PRV	1	7A	P3	
Harnett *B*								
+HARNETT SUN-FACING CONEFLOWER SITE	BUNNLEVEL	B	B3	PRV	0	4A	P2	
+RAVEN ROCK STATE PARK	MAMERS	B	B3	NCSP	1/2A	9	P2	PART RHA
Haywood *A*								
+GREAT SMOKY MOUNTAINS NATIONAL PARK	CLINGMANS DOME SILERS BALD	A	B1	NPS	2B	2B/6A	P4	RHA/MAB

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	SMOKEMONT							
	BUNCHES BALD							
	THUNDERHEAD							
	MOUNTAIN							
	CADES COVE							
	LUFTEE KNOB							
	DELLWOOD							
	MOUNT GUYOT							
	COVE CREEK GAP							
	CALDERWOOD							
	TAPOCO							
	FONTANA DAM							
	TUSKEEGEE							
	NOLAND CREEK							
	BRYSON CITY							
	WHITTIER							
	WATERVILLE							
	HARTFORD							
+BALSAM GAP	HAZELWOOD	A	B2	NPS	8/2B	8/2B	P4	RHA
+FLAT LAUREL GAP BOG	CRUSO	A	B1	NPS	8/2B	8/2B	P4	RHA
+STEESTACHEE & WESNER	HAZELWOOD	A	B2	NPS	8/2B	8/2B	P4	RHA
BALDS BOULDER FIELDS				PRV	1	8/2B		
Haywood *B*								
+PLOTT BALSAMS	SYLVA NORTH	B	B3	PRV	0	2A+	P2	
	HAZELWOOD							
->WATERROCK KNOB	SYLVA NORTH	B	B1	NPS	2B	2B	P4	RHA
+CHESTNUT BALD-SILVERMINE	SAM KNOB	B	B2	NPS	2B	2B	P5	RHA
BALD								
+DANIEL BOONE SCOUT CAMP	WAYNESVILLE	B	B3	NSL	0	2A+	P3	
+FINES CREEK	FINES CREEK	B	B2	PRV	0	2A+	P3	
+FORK RIDGE-MOUNT HARDY	SAM KNOB	B	B2	USFS	2B/6B	2B/6B	P4	RHA/EWA
				NPS	2B	2B		RHA
+GRAVEYARD FIELDS	SHINING ROCK	B	B3	NPS	1	2B	P3	
	SAM KNOB							
+MOUNT PISGAH	CRUSO	B	B2	USFS	2B	2B	P4	RHA
	DUNSMORE MOUNTAIN			NPS	2B	2B		RHA
+PIGEON RIVER GORGE	COVE CREEK GAP	B	B2	USFS	0	2B	P3	
	WATERVILLE			PRV	0	2A/8		
+REDBANK COVE	HAZELWOOD	B	B3	NPS	8/2B	8/2B	P1	RHA
				PRV	0	8/2B		
+ROUGH BUTT BALD	SAM KNOB	B	B2	USFS	0	2B	P3	
				NPS	0	2B		
+TANASEE BALD-TANASEE	SAM KNOB	B	B3	USFS	0	2B	P3	
RIDGE				NPS	0	2B		
Haywood *C*								
+FRYING PAN GAP	CRUSO	C	B3	NPS	2B	2B	P4	RHA
+SHINING ROCK WILDERNESS	SHINING ROCK	C	B3	USFS	6A	6A	P5	EWA
AREA	CRUSO							
	SAM KNOB							
	WAYNESVIL							
Henderson *A*								
+HICKORYNUT GORGE		A	B1					

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MACROSITE								
->WORLDS EDGE / SUGARLOAF MOUNTAIN	BAT CAVE LAKE LURE	B	B1	PRV	0/1	2A	P3	
+BAT FORK BOG	HENDERSONVILLE	A	B1	PRV	0/1	8/9	P1	
+EAST FLAT ROCK BOG RENNANT	HENDERSONVILLE	A	B2	PRV	1/4A	4A+	P1	MANAGEMENT AGREEMENT
+ETOWAH BOG	HORSE SHOE	A	B1	PRV	1/2A	2A	P2	PART RHA
+ETOWAH SWAMP	HORSESHOE	A	B2	USFS	1	2B	P2	
				PRV	0	2A+		
+KING CREEK BOG	HENDERSONVILLE	A	B1	PRV	1	8	P3	DECLINED REGISTRY
+OCHLAWAHA BOG	HENDERSONVILLE	A	B1	TNC	8/2A	8/9	P3	RHA
				PRV	1	8/9		
Henderson *B*								
+FRANKLIN BOG	HORSE SHOE	B	B3	PRV	0/2A	8/2A	P2	PART RHA
+GREEN RIVER NARROWS AND PULLIAM CREEK	CLIFFIELD MOUNTAIN	B	B3	PRV	0	2A+	P3	
+KANUGA CONFERENCE CENTER RARE PLANT SITE	HORSE SHOE	B	B2	PRV	2A	2A	P4	RHA
+LAUREL BRANCH MOUNTAIN HEARTLEAF HABITAT	HENDERSONVILLE	B	B3	PRV	0	2A+	P3	
+MEMMINGER'S WOODS	HENDERSONVILLE	B	B3	PRV	2A	2A	P4	
+MOUNT PISGAH	CRUSO	B	B2	USFS	2B	2B	P4	RHA
	DUNSMORE MOUNTAIN			NPS	2B	2B		RHA
+MUD CREEK BUNCHED ARROWHEAD SITE	HENDERSONVILLE	B	B2	PRV	1	2A	P1	
Henderson *C*								
+BALD TOP MOUNTAIN	FRUITLAND	C	B3	PRV	0	2A+	P3	
+FOSTER CREEK BOG	SKYLAND	C	B3	PRV	0	2A+	P3	
+GREEN RIVER GORGE	CLIFFIELD MOUNTAIN	C	B1	PRV	0	2A+	P3	
+MUD CREEK BRIDGE AND EUBANK SWAMP RENNANT	HENDERSONVILLE	C	B3	PRV	0	2A+	P2	
+PINE KNOB MINE AREA	HORSE SHOE	C	B3	PRV	0	2A+	P2	
+SOUTH MILLS RIVER SCARLET OAK AREA	PISGAH FOREST	C	B3	USFS	2B	2B/6A	P4	RHA
Hertford *B*								
+CHINKAPIN CREEK HARDWOOD FOREST	HARRELLSVILLE	B	B3	PRV	1	2A/4A	P3	
+UNION CAMP CHOWAN RIVER NATURAL AREAS	WINTON	B	B3	PRV	2A	2A		RHA
Hertford *C*								
+CHOWAN RIVER WHITE CEDAR SWAMP	WINTON	C	B3	PRV	0	2A	P2	
+COLERAIN/COW ISLAND SWAMP AND SLOPES	COLERAIN VALHALLA MINTONSVILLE	C	B3	PRV	0	2A/8	P2	
+MEHERRIN RIVER SWAMP	MURFREESBORO	C	B3	PRV	0	2A+	P2	
+MEHERRIN RIVER/BANKS CREEK NATURAL AREA	MURFREESBORO	C	B3	PRV	0	2A+	P2	
+THE POT HOLES	SUNBEAM	C	B1	PRV	0	2A	P3	
+UPPER WICCACON RIVER SWAMP	AHOSKIE	C	B3	PRV	0	2A+	P2	
				CHC	0	2A/7A		

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+WICCACON RIVER FRESHWATER MARSH	HARRELLSVILLE	C	B3	PRV	0	2A+	P4	
+WICCACON RIVER RIDGES AND SWALES	HARRELLSVILLE	C	B4	PRV	0	2A+	P2	
+WINTON BLUFFS	WINTON	C	B4	PRV	0	2A+	P2	
Hoke *A*								
+FORT BRAGG MEGASITE	MANY QUADS	A	B1					
->FORT BRAGG COLEMAN IMPACT AREA	NICHOLSON CREEK CLIFDALE LOBELIA	A	B1	DOD	1	2B/6A	P1	
->FORT BRAGG MAC RIDGE IMPACT AREA	CLIFDALE OVERHILLS	A	B1	DOD	1	2B/6A	P1	
->FORT BRAGG MCPHERSON IMPACT AREA	MCCAIN NICHOLSON CREEK NIAGARA	A	B1	DOD	1	2B/6A	P1	
+ANTIOCH BAY	RED SPRINGS	A	B1	PRV TNC	0/1 8/2A	8/9 8/9	P2	RHA
+MCCAIN NATURAL AREAS	MCCAIN	A	B2	NCDA	1	9	P2	
+OVERHILLS ESTATE	OVERHILLS LOBELIA	A	B1	PRV	1	7A	P3	
+PLUM THICKET SUMAC SITE	RED SPRINGS	A	B2	PRV	0	2A+	P2	
Hoke *B*								
->SPRING BRANCH CHURCH SWAMP	WAKULLA WAGRAN	C	B3	PRV	0	2A+	P3	
+BLUEBERRY (AUSTIN GOODMAN) BAY	RAEFORD	B	B3	PRV	0	2A+	P3	
+HANBY'S (COWLICK) BAY	RAEFORD	B	B2	PRV	0	2A+	P3	
+MARKLAND TRACT		B	B3	PRV	0	2A+	P3	
+TITI (OTTER) BAY	RAEFORD	B	B2	PRV	0	2A+	P3	
Hoke *C*								
+ARABIA BAY	PARKTON	C	B3	PRV	0	2A+	P3	
+CALLOWAY TRACT	MCCAIN	C	B3	PRV	1	2A+	P2	
+LAKE MCNEIL BAY	RAEFORD	C	B3	PRV	0	2A+	P3	
+PANIC (ANDROPOGON) BAY	WAGRAM	C	B3	PRV	0	2A+	P3	
+SARVIS BAY	WAGRAM	C	B3	PRV	0	2A+	P3	
Hyde *A*								
+ALLIGATOR RIVER WETLANDS MEGASITE		A	B2					
->ALLIGATOR RIVER SWAMP FOREST	ENGELHARD NW FAIRFIELD NE BUFFALO CITY	A	B2	DOD FWS PRV	2B 8 1	6A/2B 6A/2B 8/6A/2B	P3	PART RHA, REGISTRY THREATENED
->ALLIGATOR RIVER-SWAN LAKE SWAMP FOREST	ENGELHARD WEST ENGLEHARD EAST	A	B2	FWS PRV	8 1	2B/6B 8/2B/6A	P3	
+CAPE HATTERAS NAT'L SEASHORE MACROSITE		A	B1					
->OCRACOKE ISLAND--CENTRAL SECTION	OCRACOKE HOWARD REEF GREEN ISLAND	B	B2	NPS	2B	2B	P4	
->OCRACOKE ISLAND--EASTERN END	GREEN ISLAND	B	B2	NPS	2B	2B	P4	RHA

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->OCRACOKE ISLAND--WESTERN END (SAND FLATS)	OCRACOKE PORTSMOUTH	B	B2	NPS		2B	2B	P4	RHA
+LAKE MATTAMUSKEET NATURAL AREAS	ENGELHARD WEST NEW LAKE SE FAIRFIELD NEW HOLLAND	A	B2	FWS		8/2A/6A	2A/6A	P4	RHA/PART RNA
+SCRANTON HARDWOOD FOREST	SCRANTON PONZER	A	B2	PRV		1	2A/4A	P3	
Hyde *B*									
+CAFFEY BAY WETLANDS	SWANQUARTER NEW HOLLAND GREAT ISLAND	B	B3	FWS PRV		0 0	8 8	P3	
+GULL ROCK GAME LAND NATURAL AREA	NEW HOLLAND BLUFF POINT MIDDLETOWN	B	B3	WRC		1	9	P4	
+LONG POINT	MIDDLETOWN	B	B3	PRV		0	2A+	P3	
+LONG SHOAL RIVER MARSHES AND POCOSINS	ENGELHARD EAST ENGELHARD NW	B	B3	FWS PRV		0 0	8 8	P3	
+OCRACOKE INLET BIRD NESTING ISLANDS	PORTSMOUTH	B	B3	AUD		8/2A	9/2A	P4	RHA/PROPOSED DNP
+PUNGO LAKE AREA	PUNGO LAKE	B	B3	FWS		2B/6A	2B/6A	P4	PART RNA
+SWANQUARTER NATIONAL WILDLIFE REFUGE	SWANQUARTER GREAT ISLAND BLUFF POINT NEW HOLLAND	B	B2	FWS		1/2B/6B	1/2B/6B	P4	RHA/PART EWA
+UPPER PUNGO RIVER	BELHAVEN	B	B3	PRV		0	2A+	P3	
Hyde *C*									
+AVENUE FARM	MIDDLETOWN	C	B3	PRV		0	4A	P1	
+GIBBS POINT MARSH	ENGELHARD EAST MIDDLETOWN MIDDLETOWN ANCHORAGE	C	B3	PRV		0	2A+	P3	
+NEW LAKE FORK POCOSIN	NEW LAKE SE	C	B3	PRV FWS		0 1	8 2B/6A	P3	
+PANTEGO SWAMP AND POCOSIN	BELHAVEN PANTEGO PUNGO LAKE	C	B3	PRV		0	2A+	P3	
+POCOSIN LAKES / MATTAMUSKEET CONNECTOR	NEW LAKE SE FAIRFIELD	C	B3	PRV		0	8	P2	
+ROPER ISLAND	FAIRFIELD FAIRFIELD NW	C	B3	PRV		0	8	P3	
+UPPER ALLIGATOR RIVER MARSH	FAIRFIELD FAIRFIELD NW	C	B3	PRV FWS		0 1	2A+ 2B/6A	P3	
+WYSOCKING BAY MARSH AND POCOSIN	MIDDLETOWN	C	B3	PRV WRC		0 1	2A/8 9	P4	
Iredell *A*									
+LINK (SLOAN) BOG	CENTRAL	A	B1	PRV		1	8/9	P2	
+SICELOFF BOG	OSBORNVILLE	A	B2	PRV		1	8	P2	
Iredell *B*									
+BARNETT HOLLOW (901) BOG	CENTRAL	B	B3	PRV		0	2A+	P2	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
+MADISON BOG	OSBORNVILLE CENTRAL	B	B3	PRV	0	2A+	P2	
Iredell *C*								
+ALLISON WOODS	HARMONY	C	B3	PRV	0	2A+	P3	
+FOURTH CREEK MAGNOLIA SLOPE	STATESVILLE EAST	C	B3	PRV	0	2A+	P3	
Jackson *A*								
+ESCARPMENT GORGES MEGASITE		A	B1				P1	
->BLACKROCK MOUNTAIN-GRANITE CITY	HIGHLANDS	A	B1	USFS PRV	1 0	6A/2B 8/2A	P2	PROPOSED FOR REGISTRY
->ELLICOTT MOUNTAIN POGONIA SITE	CASHIERS	A	B2	PRV	1	8/2B	P3	
->WHITESIDE MOUNTAIN-DEVILS COURTHOUSE	HIGHLANDS	A	B1	USFS	2B	2B/6A	P4	RHA
->WHITEWATER RIVER FALLS AND GORGE	CASHIERS	A	B1	PRV USFS	1 2B	2A/8 2B/6A	P3	 RHA
->CHATTOOGA RIVER GORGE-ELLICOTT ROCK	CASHIERS HIGHLANDS	B	B1	PRV USFS	1 6A/2B	8/2B 6A/2B	P4	 RHA/EWA
->DULANY BOG	CASHIERS	B	B2	PRV HBF	0 2A	2A+ 2A	P3	 RHA
->HIGH HAMPTON-CHATTOOGA RIDGE NATURAL AREA	CASHIERS	B	B2	PRV	1	7A/8+	P3	
->SAVANNAH RIVER HEADWATERS AQUATIC HABITATS	REID	B	B3	PW	0/1	6C	P3	
+BALSAM GAP	HAZELWOOD	A	B2	NPS	8/2B	8/2B	P4	RHA
+CEDAR CLIFF MOUNTAIN	BIG RIDGE TUCKASEGEE	A	B1	PRV	0	2A+	P3	
+PANTHERTOWN VALLEY	BIG RIDGE LAKE TOXAWAY	A	B1	USFS	1	2B/6A	P4	
Jackson *B*								
+PLOTT BALSAMS	SYLVA NORTH HAZELWOOD	B	B3	PRV	0	2A+	P2	
->WATERROCK KNOB	SYLVA NORTH	B	B1	NPS	2B	2B	P4	RHA
+BONAS DEFEAT-TUCKASEGEE GORGE	BIG RIDGE	B	B2	USFS	2B	2B	P4	RHA
+FORK RIDGE-MOUNT HARDY	SAN KNOB	B	B2	USFS NPS	2B/6B 2B	2B/6B 2B	P4	RHA/EWA RHA
+RICHLAND BALSAM	SAM KNOB	B	B3	NPS	2B	2B	P4	RHA
+ROUGH BUTT BALD	SAM KNOB	B	B2	PRV USFS NPS	1 0 0	8/2B 2B 2B	P3	
+SHEEP CLIFF RIDGE	BIG RIDGE	B	B2	PRV/TNC	7A/2A	7A/2A	P4	EASEMENT/RHA
+TANASEE BALD-TANASEE RIDGE	SAM KNOB	B	B3	USFS NPS	0 0	2B 2B	P3	
Jackson *C*								
+CULLOWHEE JEFFERSONIA SITE	SYLVA SOUTH	C	B3	PRV	1	2A	P4	
+SHOAL MOUNTAIN WOOD FERN	GLENVILLE	C	B3	PRV	0	2A+	P3	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
COVE								
+WEBSTER SERPENTINE-OLIVINE OUTCROP	SYLVA SOUTH	C	B3	PRV	0	2A+	P3	
+WOLF CREEK WATERSHED NATURAL AREA	GLENVILLE	C	B3	USFS WCU	0 2A	2B 2A	P3	RHA
Johnston *A*								
+LITTLE RIVER (WAKE/JOHNSTON/WAYNE) AQUATIC HABITAT	FLOWERS STANCILS CHAPEL ZEBULON NORTHWEST GOLDSBORO PRINCETON KENLY WEST	A	B1	PW	1	6C	P1	
Johnston *C*								
+FLOWER HILL-MOCCASIN CREEK	STANCILS CHAPEL	C	B3	PRV	1	8/2A	P3	TLC HAS OPTION ON 1 TRACT
Jones *A*								
+CROATAN NATIONAL FOREST MEGASITE		A	B1					
+>CROATAN POCOSINS	HADNOT CREEK CATFISH LAKE MASONTOWN MAYSVILLE	A	B2	USFS PRV	2B/6A 0	2B/6A 8/6A	P4	RHA/EWA
->ISLAND CREEK	POLLOCKSVILLE	A	B1	USFS PRV	2B 1	6A/2B 8/6A/2B	P2	RHA
->HOLSTON CREEK	STELLA	B	B3	PRV USFS	0 1	2A+ 2B	P3	
->HUNTERS CREEK UPLAND FOREST	STELLA	B	B3	USFS	2B	2B	P4	RHA
->MAYSVILLE SPRING FLOWERING GOLDENROD SITE	MAYSVILLE	B	B2	DOT USFS PRV	0 0 0	2A/4A 2B 2A/4A	P3	
+REEDY BRANCH	NEW BERN	A	B2	PRV	0	2A+	P3	
Jones *B*								
+SALLY SIMMONS LIMESTONE LEDGE	COMFORT	B	B2	PRV	0	2A+	P3	
Jones *C*								
+DEEP GULLY	POLLOCKSVILLE	C	B3	PRV	0	2A+	P3	
Lee *A*								
+JUNIPER SPRINGS CHURCH NATURAL AREA	BROADWAY	A	B2	PRV	1/2A	2A/8	P3	PART RHA
+ROCKY RIVER-DEEP RIVER AQUATIC HABITAT	COLON	A	B1	PW	1	6C	P1	POSSIBLE ORW/HQW
Lee *B*								
+LEMON SPRINGS LONGLEAF STAND	SANFORD MURCHISONTOWN	B	B3	PRV	0	2A+	P3	
+SEABOARD LONGLEAF SITE	MURCHISONTOWN	B	B3	PRV	0	2A+	P2	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
+WHITE PINES NATURAL AREA	COLON	B	B3	TLC	2A	2A	P3	RHA
				PRV	1	2A/8/9		
				PRV	2A	2A/5		RHA
Macon *A*								
+ESCARPMENT GORGES MEGASITE		A	B1				P1	
->BLACKROCK MOUNTAIN-GRANITE CITY	HIGHLANDS	A	B1	USFS	1	6A/2B	P2	PROPOSED FOR REGISTRY
				PRV	0	8/2A		
->CHATTOOGA RIVER GORGE-ELLICOTT ROCK	CASHIERS	B	B1	PRV	1	8/2B	P4	
	HIGHLANDS			USFS	6A/2B	6A/2B		RHA/EWA
->SATULAH MOUNTAIN	HIGHLANDS	B	B3	PRV	0/2A	2A	P3	PARTIAL RHA
->SAVANNAH RIVER HEADWATERS AQUATIC HABITATS	REID	B	B3	PW	0/1	6C	P3	
->SLICK ROCK	HIGHLANDS	B	B3	USFS	2B	2B	P4	RHA
->HORSE COVE BOG	HIGHLANDS	C	B3	PRV	0	2A+	P3	PART DESTROYED
+CROW CREEK FALLS	SCALY MOUNTAIN	A	B1	PRV	0	2A/8	P3	
+CULLASAJA GORGE	SCALY MOUNTAIN HIGHLANDS	A	B1	USFS	2B	2B	P4	RHA
+HENRY WRIGHT PRESERVE	HIGHLANDS	A	B2	PRV	1	8/9	P4	
				TNC	8/9	8/9		DED
+KELSEY NATURAL AREA	HIGHLANDS	A	B2	PRV	0	2A/7A/8	P4	
				USFS	2B	6A/2B		RHA
+LITTLE TENNESSEE RIVER AQUATIC HABITAT	WESSER FRANKLIN ALARKA	A	B1	PW	1	2A/6C	P3	
+NANTAHALA RIVER BOGS	RAINBOW SPRINGS	A	B1	USFS	2B	6A/2B	P4	RHA
+RAVENEL'S WOODS REMNANTS	HIGHLANDS	A	B1	PRV	0	2A/8	P2	
Macon *B*								
+BRYSON BRANCH FALLS AND COVE	GLENVILLE	B	B2	USFS	2B	2B	P4	RHA
+CAMP BRANCH FALLS--NANTAHALA GORGE	HEWITT	B	B3	USFS	2B	2B	P4	RHA
+RUNAWAY KNOB	RAINBOW SPRINGS	B	B3	USFS	2B	2B	P4	RHA
+STANDING INDIAN MOUNTAIN	RAINBOW SPRINGS	B	B2	USFS	6A/2B	6A/2B	P4	RHA/EWA
+WAYAH BALD AND WINE SPRING BALD	WAYAH BALD	B	B2	PRV	0	2A/8	P3	
				USFS	1	2B		
Macon *C*								
+COLE MOUNTAIN-SHORTOFF MOUNTAIN	HIGHLANDS	C	B3	USFS	2B	2B	P3	PART RHA
+HIGHLANDS BOG	HIGHLANDS	C	B3	PRV	1	2A+	P3	
+JARRETT CREEK MARSH-BOG	TOPTON	C	B3	USFS	1	2B	P4	
+LITTLE SCALY MOUNTAIN	SCALY MOUNTAIN	C	B3	PRV	0	2A+	P3	
+NANTAHALA RIVER WOODLAND POND	WAYAH BALD RAINBOW SPRINGS	C	B3	PRV	1	2A+	P3	
+OLIVE PRESERVE	HIGHLANDS	C	B3	NCBG	2A	2A	P4	RHA
				PRV	1	8/2A		
+PINEY KNOB FORK	SCALY MOUNTAIN	C	B3	USFS	2B	2B	P1	RHA
+PINKY FALLS PRESERVE	HIGHLANDS	C	B1	BGF	2A	2A	P1	RHA
				PRV	1	8/2A		
+RAINBOW SPRINGS MARSH	RAINBOW SPRINGS	C	B3	PRV	1	7/4A	P3	
+SCALY MOUNTAIN	SCALY MOUNTAIN	C	B3	USFS	2B	2B	P4	RHA

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+WALKING FERN COVE	GLENVILLE	C	B3	USFS	2B	2B	P4	RHA
+WILDES COVE	WAYAH BALD	C	B3	USFS	2B	6A/2B	P4	RHA
Madison *B*								
+HOT SPRINGS WINDOW MACROSITE	HOT SPRINGS PAINT ROCK	B						
->LOVERS LEAP--STACKHOUSE SLOPES	HOT SPRINGS	B	B2	PRV	0	8/2B	P3	PROPOSED FOR USFS LAND TRADE
				USFS	0	2B		
->LOWER FRENCH BROAD RIVER AQUATIC HABITAT	HOT SPRINGS	B	B2	PW	0	6C	P3	
->PAINT ROCK ROAD AREA	HOT SPRINGS	B	B2	USFS	2B	2B	P4	RHA
->STOKELY HOLLOW AND RIDGE	HOT SPRINGS	B	B2	PRV	0	2A+	P3	
->BIG LAUREL CREEK GORGE	HOT SPRINGS	C	B3	USFS	2B	2B	P3	RHA
				PRV	0	2A/8		
->DEEP WATER BRIDGE AREA	HOT SPRINGS	C	B2	PRV	0	2A/8	P3	
				USFS	0	2B		
+SANDYMUSH CREEK GORGE	LEICESTER	B	B3	PRV	0	2A+	P3	
Madison *C*								
+SPRING CREEK TRILLIUM SLOPE	FINES CREEK	C	B3	PRV	0	2A+	P3	
Martin *A*								
+ROANOKE RIVER MEGASITE		A	B1					
->DEVIL'S GUT SLOUGH	JAMESVILLE	A	B2	PRV	1	8/9	P2	
				TNC	8/9	8/9		DNP
->ROANOKE RIVER/NC 11 ALLUVIAL FLATS	WOODVILLE HAMILTON	B	B3	PRV	0	8/6A	P2	
->FORT BRANCH BLUFFS AND RAINBOW BANKS	HAMILTON	C	B3	PRV	0	2A/8/6A	P3	
->POPLAR POINT SLOPES	HAMILTON QUITSNA	C	B3	PRV	0	2A+	P3	
->ROANOKE RIVER SLOPES EAST OF PALMYRA	PALMYRA	C	B3	PRV	0	2A+	P2	
->SWEETWATER CREEK	WILLIAMSTON	C	B3	PRV	0	2A+	P2	
Martin *B*								
+CONOHO CREEK SCHISANDRA SLOPES	QUITSNA	B	B3	PRV	0	2A+	P3	
Martin *C*								
+CONOHO CREEK CYPRESS SWAMP	QUITSNA	C	B3	PRV	0	2A+	P3	
+LILLEY'S SWAMP	WILLIAMSTON	C	B3	PRV	0	2A+	P3	
Mcdowell *A*								
+LINVILLE CAVERNS	LINVILLE FALLS	A	B1	PRV	2A	7A/9	P4	RHA
+WOODS MOUNTAIN-SINGECAT RIDGE	CELO	A	B1	USFS	1	2B	P4	
Mcdowell *B*								
+BALD MOUNTAIN SHORTIA SITES	LITTLE SWITZERLAND	B	B2	PRV	0	2A+	P3	

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+BEAR CREEK SHORTIA SITES	ASHFORD	B	B2	PRV	0	2A+	P3	
+BEARTREE RIDGE	CELO	B	B2	USFS	1	2B	P3	PROPOSED FOR REGISTRY
+CATAWBA RIVER DOLOMITE AREA	LINVILLE FALLS	B	B2	PRV USFS	0 1	8/2B 2B	P3	 PART PROPOSED FOR RHA
+JOHN'S CREEK SHORTIA HABITAT	MARION WEST	B	B2	USFS	2B	2B	P4	RHA
+LINVILLE MOUNTAIN NATURAL AREA	LINVILLE FALLS	B	B2	USFS	1	2B	P3	PROPOSED FOR RHA
Mcdowell *C*								
+BOB'S CREEK POCKET WILDERNESS	GLENWOOD MARION EAST	C	B3	PRV	1	2A	P4	
+LAUREL RIDGES	MARION	C	B3	NPS	2B	2B	P4	RHA
+MUDDY CREEK BOG		C	B3	PRV	0	2A+	P3	
+NEWBERRY CREEK GORGE	OLD FORT	C	B2	USFS	0	2B	P3	
+TOMS CREEK SHORTIA SITE	MARION WEST	C	B2	PRV	0	2A+	P4	
Mecklenburg *A*								
+GAR CREEK SCHWEINITZ'S SUNFLOWER SITE	MOUNTAIN ISLAND LAKE	A	B1	PRV/TNC	4A	4A/7A	P1	TNC HAS MANAGEMENT AGREEMENT
Mecklenburg *B*								
+PROVIDENCE FLATS SWAMP	WEDDINGTON	B	B3	PRV	0	2A+	P2	
Mecklenburg *C*								
+BACK CREEK SWAMP	HARRISBURG	C	B3	PRV	0	8/2A	P2	
+TRAILS END LAND POST OAK UPLAND	CORNELIUS	C	B3	PRV	0	2A+	P2	
Mitchell *A*								
+ROAN MOUNTAIN HIGHLANDS MEGASITE		A	B1					
->ROAN MOUNTAIN MASSIF	CARVERS GAP ELK PARK WHITE ROCKS ETC.	A	B1	USFS SAHC PRV	2B 8/2A 0	2B 8/2A/9 8/2A/2B	P4	RHA RHA
->FALL CREEK FALLS	CARVERS GAP	C	B3	PRV	0	2A+	P4	
+NOLICHUCKY RIVER GORGE	CHESTOA HUNTDALE	A	B1	USFS	1	2B/6A	P3	
Montgomery *A*								
->DROWNING CREEK AQUATIC HABITAT	NORMAN HOFFMAN WEST END CANDOR	B	B2				P2	
->NAKED CREEK AQUATIC HABITAT	NORMAN HOFFMAN	B	B2	PW PW	1 6C	6C 6C	P3	ORW ORW
+BLACK ANKLE BOG	ALBEMARLE	A	B1	PRV	1	8/9	P2	
+ROBERDO BOG	TROY	A	B2	USFS	2B	2B	P4	RHA
Montgomery *B*								
+ABNER BOG	LOVEJOY	B	B2	USFS	2B	2B	P4	RHA
+BADIN UPLAND DEPRESSION SWAMPS	BADIN	B	B2	USFS	2B	2B	P4	RHA
+GOLD MINE BRANCH	BADIN	B	B3	USFS	2B	2B	P4	RHA

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LONGLEAF PINE SLOPE									
+OPHIR BOGS	LOVEJOY	B	B2	PRV		0	2A+	P3	
+PEE DEE RIVER BALD EAGLE FORAGING HABITAT	BADIN MORROW MOUNTAIN	B	B3	PRV		0	2A+	P3	
+PLEASANT GROVE BOG	TROY	B	B2	USFS		2B	2B	P4	RHA
+PLEASANT GROVE CHURCH TRIPLE PINE SAVANNA	TROY	B	B3	USFS		1	2B	P3	
+UWHARRIE MAFIC ROCK AREA	BADIN	B	B3	USFS		0	2B	P3	PART PROPOSED FOR REGISTRY
Montgomery *C*									
+BARNES CREEK BLUFFS	LOVEJOY	C	B3	USFS		0	2B	P4	
+UWHARRIE RIVER SLOPES	BADIN	C	B3	USFS		2B	2B	P4	RHA
Moore *A*									
+FORT BRAGG MEGASITE	MANY QUADS	A	B1						
->JOHNSON'S MILL POND BOG	NIAGARA	A	B2	PRV		0	2A+	P3	
				DOD		0	2B		
->FORT BRAGG SPHAGNUM BOG AND POCOSIN	OVERHILLS	C	B3	DOD		0	2B	P3	
+SANDHILLS GAME LAND MEGASITE		A	B1					P2	
->DROWNING CREEK AQUATIC HABITAT	NORMAN HOFFMAN WEST END CANDOR	B	B2					P2	
+DEEP RIVER (RANDOLPH/MOORE) AQUATIC HABITAT	ROBBINS BENNETT	A	B1	PW		0	6C	P2	
+PAINT HILL	SOUTHERN PINES	A	B1	PRV		1/2A/7A	7A/8/9	P1	PARTIAL EASENENT
+WALTHOUR MOSS LONGLEAF PINE FOREST	NIAGARA	A	B3	PRV		1	2A/7A	P4	
Moore *B*									
+DEEP RIVER SPIDERWORT SLOPES	PUTNAM	B	B3	PRV		0	2A+	P3	
+LITTLE RIVER FLATWOODS	LOBELIA	B	B3	PRV		0	2A+	P1	
+VONCANON LONGLEAF STAND	WEST END	B	B3	PRV		0	2A+	P3	
+WEYMOUTH WOODS STATE NATURAL AREA	SOUTHERN PINES NIAGARA	B	B2	NCSP		8/2A	9	P4	RHA
Moore *C*									
+BEAR CREEK HICKORY SLOPE	ROBBINS	C	B3	PRV		0	2A+	P3	
+DEEP RIVER-BUZZARD ROCK	ROBBINS	C	B3	PRIVATE		0	2A+	P3	
+GLENDON SLATE CREEK AND LEVEE	PUTNAM	C	B3	PRV		0	2A+	P3	
+HORSE CREEK LONGLEAF PINE FOREST	HOFFMAN PINEBLUFF	C	B3	PRV		0	2A+	P1	
+LONGLEAF DIKE	ZION GROVE	C	B4	PRV		0	2A+	P3	
+MCLENDONS CREEK DIABASE SILL AND LEVEES	PUTNAM	C	B3	PRV		0	2A+	P3	
+NC 73 POWERLINE SAVANNA	CARTHAGE SOUTHERN PINES	C	B3	PRV		0	4A	P3	
+QUAIL HOLLOW FARM RESINOUS BONESET SITE	PINEBLUFF	C	B3	PRV		0	2A+	P3	

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+SOUTHERN PINES TOWN RESERVOIR PARK	SOUTHERN PINES	C	B3	LOCAL	1	2A	P3	
+SPIES LONGLEAF/WIREGRASS SITE	SPIES	C	B3	PRV	0	2A+	P2	
Nash *A*								
+SWIFT CREEK AQUATIC HABITAT	DRAKE WHITAKERS HARTSEASE ESSEX RED OAK TARBORO VICKSBORO INGELSIDE	A	B1	PW	1	6C	P1	POSSIBLE HQW
+TAR RIVER (FRANKLIN/NASH/EDGECOMBE) AQUATIC HAB.	TARBORO BUNN EAST KITTRELL INGLESIDE LOUISBURG JUSTICE SPRING HOPE BAILEY ROCKY MOUNT SPEED OLD SPARTA HARTSEASE	A	B2	PW	0	6C	P1	
+TURKEY CREEK LEAST TRILLIUM SITE	MIDDLESEX	A	B1	TNC	8	8/2A/9	P4	RHA
Nash *C*								
+SANDY CREEK HEARTLEAF SITE	CENTERVILLE	C	B3	PRV	0	2A+	P3	
New Hanover *A*								
->LOWER CAPE FEAR RIVER AQUATIC HABITAT	WILMINGTON CAROLINA BEACH KURE BEACH	B	B2	PW	0	6C	P2	
->ZEKE'S ISLAND ESTUARINE SANCTUARY	KURE BEACH	B	B3	NCCM	9	9	P5	DNP
New Hanover *B*								
+421 SAND RIDGE	CASTLE HAYNE LELAND	B	B3	PRV	0	2A+	P2	
+BRUNSWICK RIVER-CAPE FEAR RIVER MARSHES	WILMINGTON CASTLE HAYNE	B	B2	PRV	0	2A+	P4	
+CAROLINA BEACH STATE PARK	CAROLINA BEACH	B	B2	NCSP PRV DOD	8/2A 0 2A	8/2A 8/2A/9 2A	P3	RHA LEASED TO NCSP, RHA
+FORT FISHER COQUINA OUTCROP	KURE BEACH	B	B3	NCMF/NCCUL	2A	2A	P4	RHA
+LOWER CAPE FEAR RIVER BIRD NESTING ISLANDS	KURE BEACH CAROLINA BEACH	B	B3	NCADM	1/2A	2A	P5	RHA
+MASONBORO ISLAND STATE NATURAL AREA	WRIGHTSVILLE BEACH CAROLINA BEACH	B	B3	NCCM PRV	8/9 0	8/9 8/9	P2	DNP
+MOTSU BUFFER ZONE	CAROLINA BEACH	B	B3	DOD	1	2B	P2	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
+SIDBURY ROAD SAVANNA	KURE BEACH SCOTTS HILL	B	B3	PRV	0	2A+	P3	
New Hanover *C*								
+NORTHEAST CAPE FEAR RIVER FLOODPLAIN	CASTLE HAYNE STAG PARK MOORETOWN SCOTTS HILL	C	B3	PRV	0	2A+	P3	
+FORT FISHER STATE RECREATION AREA	KURE BEACH	C	B3	NCSP	1	2A	P3	
+HARRIS ROAD SAVANNA	SCOTTS HILL	C	B3	PRV	0	2A+	P2	
+MOTTS CREEK	WILMINGTON	C	B3	PRV	0	2A+	P3	
Northampton *A*								
+ROANOKE RIVER MEGASITE		A	B1					
->CAMASSIA SLOPES	BOONES CROSSROADS	A	B2	TNC NCDC	8/9 2A	9 9	P4	DNP RHA
->OCCONEECHEE NECK FLOODPLAIN FOREST	HALIFAX BOONES CROSSROADS	B	B3	PRV	0	2A+	P2	
Northampton *C*								
+HENRICO GRANITE FLATROCK	VALENTINES	C	B3	PRV	0	2A+	P3	
+MEHERRIN RIVER BOTTOMLAND FOREST	MARGARETTSVILLE	C	B3	PRV	0	2A+	P3	
Onslow *A*								
+CAMP LEJEUNE MACROSITE		A						
->CAMP LEJEUNE LIMESINK COMPLEX	NEW RIVER INLET CAMP LEJEUNE	A	B2	DOD	1	2B/6A	P3	
->LEJEUNE LONGLEAF RIDGE	NEW RIVER INLET	A						
->LYMAN ROAD CYPRESS SAVANNA	CAMP LEJEUNE	A	B1	DOD	1	2B/6A	P3	
->STARRETTS MEADOW	HUBERT	A						
->CAMP LEJEUNE G-10 IMPACT AREA	NEW RIVER INLET HUBERT CAMP LEJEUNE BROWNS INLET	B	B2	DOD	1	2B/6A	P3	
->ONSLOW BEACH (CAMP LEJEUNE)	NEW RIVER INLET BROWNS INLET	B						
->WALLACE CREEK	CAMP LEJEUNE	C	B3	DOD	1/2B	2B	P4	PART RHA
+COOLEY'S MEADOWRUE POWERLINE SITE	HAWS RUN	A	B2	PRV	2A	2A/4A	P3	RHA WITH BOTH OWNER AND POWERLINE EASEMENT
+HAMMOCKS BEACH STATE PARK	BROWN'S INLET HUBERT SWANSBORO	A	B2	NCSP	8/2A	9	P4	RHA
+SANDY RUN SWAMP RARE PLANT SITE	HAWS RUN	A	B2	PRV	0	2A/8	P2	
Onslow *B*								
+COOLEY'S MEADOWRUE TYPE LOCALITY	HAWS RUN	B	B2	PRV	0	2A+	P3	
+HAWKINS ISLAND	HUBERT	B	B3	PRV	0	2A+	P3	
+HOFMANN FOREST CYPRESS NATURAL AREA	JACKSONVILLE NW	B	B3	NCFF	2A	2A+	P4	RHA

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
+HOFMANN FOREST NERE ELEXUS POND PINE NATURAL AREA	KELLUM	B	B3	NCFF	2A	2A+	P4	RHA
+HUGGINS (RUSSELLS) ISLAND	SWANSBORO	B	B2	PRV	0	2A/8	P3	
+NEW RIVER LIMESTONE RAVINE	CATHERINE LAKE	B	B2	PRV	0	2A+	P3	
+ROCK HOUSE CAVE NATURAL AREA	CATHERINE LAKE	B	B3	PRV	0	2A+/8	P2	
Onslow *C*								
+BALL POND LIMESINK COMPLEX	HUBERT	C	B3	PRV	0	2A+	P3	
+CATHERINE LAKE POWERLINE FLATWOODS	CATHERINE LAKE	C	B3	PRV	0	2A+	P3	
+MAPLE HILL LIMESINK COMPLEX	MAPLE HILL	C	B3	PRV	0	2A+	P3	
+NEW RIVER INLET NESTING ISLAND	NEW RIVER INLET	C	B3	NC	2A	2A	P4	RHA
+TATE ROAD SAVANNA	MAPLE HILL	C	B3	PRV	0	2A+	P3	
Orange *B*								
+DUKE FOREST NATURAL AREAS MACROSITE		B						
->BALD MOUNTAIN	CHAPEL HILL	B	B2	DUKE	1	2A+	P3	PROPOSED FOR REGISTRY
->COUCH MOUNTAIN	HILLSBOROUGH NW DURHAM	B	B2	DUKE	1	2A+	P3	PROPOSED FOR REGISTRY
->HENRY J. OOSTING NATURAL AREA	CHAPEL HILL	B	B3	DUKE	1	2A+	P1	PROPOSED FOR REGISTRY
->MEADOW FLATS	CHAPEL HILL	B	B3	DUKE	1	2A+	P3	PROPOSED FOR REGISTRY
->NEW HOPE CREEK	CHAPEL HILL	B	B2	DUKE	1	2A+	P2	PROPOSED FOR REGISTRY
->POST OAK-BLACKJACK OAK SITE	CHAPEL HILL	B	B3	DUKE	1	2A+	P3	PROPOSED FOR REGISTRY
->BLACKWOOD MOUNTAIN	CHAPEL HILL	C	B3	DUKE	1	2A+	P3	PROPOSED FOR REGISTRY
+JORDAN LAKE NATURAL AREAS MACROSITE	MERRY OAKS FARRINGTON GREEN LEVEL NEW HILL SOUTHWEST DURHAM	B						
->MORGAN CREEK SWAMP	CHAPEL HILL	C	B4	COE	I	2B	P2	
->MORGAN CREEK SWAMP	FARRINGTON	C	B3	COE	0	2B	P3	
+NORTH CAROLINA BOTANICAL GARDEN NATURAL AREAS	CHAPEL HILL	B	B2	UNC	1	9/2A	P2	PROPOSED FOR REGISTRY
+OCCONEECHEE MOUNTAIN	HILLSBOROUGH	B	B2	LOCAL PRV	1 0/1	8/2A 8/2A	P1	
Orange *C*								
+BERRYHILL RHODODENDRON BLUFF	CHAPEL HILL	C	B3	TLC	1	2A+	P4	
+CEDAR GROVE HEARTLEAF SITE	CEDAR GROVE	C	B3	TNC	1	8	P5	
+ENO RIVER STATE PARK	HILLSBOROUGH NORTHWEST DURHAM	C	B3	PRV NCSP	1 8/2A	8 8/2A	P2	 PART RHA
+MORGAN CREEK ANEMONE SITE	CHAPEL HILL	C	B3	PRV	1	2A/7	P3	

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+MORGAN CREEK RHODODENDRON BLUFF AND SLOPE	CHAPEL HILL	C	B3	UNC PRV	1 0	2A 2A+	P2	PROPOSED FOR REGISTRY	
+PICKARD'S MOUNTAIN	WHITE CROSS	C	B3	PRV	0	2A+	P3		
+SEVENMILE CREEK SUGAR MAPLE BOTTOM	EFLAND	C	B3	LOCAL PRV	1 1	2A+ 2A+	P3		
+STILLHOUSE BOTTOM--GLADE AND BLUFF	CHAPEL HILL	C	B3	PRV UNC	0 1	2A+ 2A+	P2	 PROPOSED FOR REGISTRY	
+STONY CREEK FOUR-TOED SALAMANDER SPRING	HILLSBOROUGH	C	B3	DUKE	0	2A	P3		
Pamlico *B*									
+FEDERAL PAPER HARDWOOD FLATS	ARAPAHOE ORIENTAL	B		PRV	0	2A+		PART DESTROYED	
+GOOSE CREEK GAME LAND	SOUTH CREEK LOWLAND	B	B3	NCWRC	0	2A	P3		
+JONES ISLAND	JONES BAY	B	B2	PRV	0	2A+	P3		
+MERRITT HARDWOOD FLATS	ORIENTAL	B	B3	PRV	0	2A+	P2		
+NORTH MINNESOTT SAND RIDGE	BAYBORO	B	B3	PRV	0	2A+	P3		
+OYSTER CREEK PINE HAMMOCKS	LOWLAND	B	B3	PRV	0	8	P3		
+PAMLICO POINT STATE IMPOUNDMENTS	LOWLAND	B	B3	NCWRC	0	2A+	P3		
Pamlico *C*									
+BAY CITY LOW POCOSIN	BAYBORO VANDEMERE	C	B3	PRV	0	2A+	P2		
+HOBUCKEN MARSHES	JONES BAY LITTLE FISHING POINT LOWLAND	C	B3	PRV	0	2A+	P3		
+LIVE OAK BAY	UPPER BROAD CREEK	C	B3	PRV	0	2A+	P3		
+MOOSE HARBOR MARSHES	LITTLE FISHING POINT PAMLICO POINT LOWLAND JONES BAY	C	B3	PRV	0	2A+	P3		
+NORTHWEST POCOSIN	REELSBORO BAYBORO	C	B3	PRV	0	2A+	P3		
+SOUTH MINNESOTT SAND RIDGE	ARAPAHOE	C	B3	PRV	0	2A+	P3		
+STONEWALL HARDWOOD FLATS	BAYBORO ORIENTAL	C	B3	PRV	0	2A+	P2		
+WESTERN LIGHT GROUND POCOSIN	ARAPAHOE	C	B3	PRV	0	2A+	P3		
Pasquotank *A*									
+DISMAL SWAMP MACROSITE		A	B2						
->GREAT DISMAL SWAMP WILDLIFE REFUGE	LAKE DRUMMOND SOUTH MILLS CORAPEAKE SUNBURY LYNCHS CORNER	A	B2	FWS	2B	2B	P4	RHA	

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Pasquotank *B*								
+BIG FLATTY CREEK FORESTS AND MARSHES	WADE POINT WEEKSVILLE	B	B1	PRV	0	2A+	P2	
+LITTLE FLATTY CREEK FORESTS AND MARSH	WADE POINT	B	B2	PRV	0	2A+	P2	
Pender *A*								
+HOLLY SHELTER GAME LAND MACROSITE	HOLLY RIDGE TOPSAIL MAPLE HILL BURGAW	A	B1	PRV WRC	0 1	2A/8 9/2A	P3	
->SOUTHWEST RIDGE SAVANNA	MAPLE HILL SW	B	B3	TNC NCWRC	8 1	9/2A 9/2A	P3	 POTENTIAL DNP
+BLACK RIVER CYPRESS FOREST	POINT CASWELL ROWAN ATKINSON CURRIE	A	B1	TNC PRV	8 1/7	8/9 2A/7/8/9	P3	 TNC HOLDS EASEMENT ON PART
+LANIER QUARRY SAVANNA	MAPLE HILL MAPLE HILL SW	A	B1	TNC PRV	8/2A 1	8/9 8/9	P1	RHA/POTENTIAL DNP
+ROCKY POINT MARL FOREST	MOORETOWN	A	B1	PRV	1	8/2A/9	P2	
+SANDY RUN SAVANNA	MAPLE HILL	A	B1	PRV	0	8/2A	P2	
Pender *B*								
+CONES FOLLY	ATKINSON	B	B2	PRV	1	2A+	P3	
+421 SAND RIDGE	CASTLE HAYNE LELAND	B	B3	PRV	0	2A+	P2	
+ANGOLA BAY GAME LAND	MAPLE HILL	B	B2	PRV WRC	0 1	8/2A+ 9/2A	P3	
+ANGOLA CREEK FLATWOODS	MAPLE HILL	B	B2	TNC	8	9	P4	
+HUTAFF'S BEACH	HAMPSTEAD	B	B2	PRV	0	2A+	P3	
+LEA ISLAND	HAMPSTEAD	B	B3	PRV	0	2A+	P3	
+MCLEAN SAVANNA	MOORETOWN	B						
+MOORES CREEK BATTLEFIELD ENDANGERED PLANT HABITAT	CURRIE	B	B3	NPS	2B	2B	P5	RHA
+PARKERS SAVANNA	MAPLE HILL	B	B2	PRV	0	2A/8	P3	
+SIDBURY ROAD SAVANNA	SCOTTS HILL	B	B3	PRV	0	2A+	P3	
+WATKINS SAVANNA MEADOWRUE SITE	MAPLE HILL	B	B2	PRV	1	2A/8	P2	
Pender *C*								
+NORTHEAST CAPE FEAR RIVER FLOODPLAIN	CASTLE HAYNE STAG PARK MOORETOWN SCOTTS HILL	C	B3	PRV	0	2A+	P3	
+CORBETT'S SANDHILLS	CURRIE	C	B3	PRV	0	2A+	P3	
+MCCLEAN SAVANNA	MOORETOWN	C	B3	PRV	0	2A+	P2	
+TRUMPETER SWAMP SAVANNA	TOPSAIL	C	B3	PRV	0	2A+	P3	
Perquimans *B*								
+MENZIE'S POND	HARVEY NECK YEOPIM RIVER	B	B2	PRV	0	2A+	P2	
+PERQUIMANS RIVER CHERRYBARK OAK FLATS	NIXONTON	B	B2	PRV	1	2A+	P1	
Perquimans *C*								

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+YEOPIM CREEK OAK SLOPES	YEOPIM RIVER	C	B3	PRV		0	2A+	P2	
Person *C*									
+DENNYS STORE GABBRO FOREST	TRIPLE SPRINGS	C	B3	PRV		0	2A+	P2	
+VERNON HILL CHURCH ROAD DRY FOREST	TRIPLE SPRINGS	C	B2	PRV		0	2A+	P3	
Pitt *A*									
+BETHEL/GRINDLE HARDWOOD FLATS	CONETOE	A	B2	PRV		0	2A,8	P3	
Pitt *B*									
+VOICE OF AMERICA (SITE B) SPARROW SITE	WILMAR	B	B3	USA		0	2B/4A	P1	
Pitt *C*									
+BELVOIR CAROLINA BAYS AND FLATS	GREENVILLE NW	C	B3					P3	
+CHICOD CREEK SWAMP AND SLOPES	GRIMESLAND	C	B3	PRV		0	2A+	P3	
+HARRIS MILL RUN SLOPES	GREENVILLE SW GREENVILLE NW	C	B3	PRV		0	2A+	P2	
+JOLLY OLD FIELD NATURAL AREA	GRIFTON	C	B3	PRV		0	2A,7A	P3	
+LOWER TAR RIVER MARSHES AND SWAMP	GRIMESLAND WASHINGTON	C	B3	PRV		0	8	P3	
+OTTER CREEK NATURAL AREA	FALKLAND	C	B3	PRV ECU		1 2A	2A+ 2A	P1	RHA
+TAR RIVER / BLUE BANKS FARM SLOPES	GREENVILLE NW	C	B3	PRV		0	2A+	P2	
+VOICE OF AMERICA (SITE C) SPARROW SITE	GREENVILLE NW	C	B3	USA		0	2B/4A	P3	
Polk *A*									
->WORLDS EDGE / SUGARLOAF MOUNTAIN	BAT CAVE LAKE LURE	B	B1	PRV		0/1	2A	P3	
+COVE CREEK-BRADLEY FALLS NATURAL AREA	CLIFFIELD MOUNTAIN	A	B1	WRC		1	9	P4	POTENTIAL DNP
+WHITE OAK MOUNTAIN-TRYON PEAK	MILL SPRING	A	B1	PRV		0	2A+	P2	
Polk *B*									
+CEDAR CLIFF-WARRIOR MOUNTAINS	SALUDA	B	B2	TNC PRV		8 0	2A 2A+	P3	
+GREEN RIVER NARROWS AND PULLIAM CREEK	CLIFFIELD MOUNTAIN	B	B3	PRV		0	2A+	P3	
+LITTLE WARRIOR MOUNTAIN CAVE	SALUDA	B	B2	PRV		2A	2A	P5	RHA
+PEARSON'S FALLS GLEN	SALUDA	B	B3	PRV		2A	5/9/2A	P4	RHA
Polk *C*									
+GREEN RIVER GORGE	CLIFFIELD MOUNTAIN	C	B1	PRV		0	2A+	P3	
+GREEN RIVER RICH SLOPE	PEA RIDGE	C	B3	PRV		0	2A+	P3	

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Randolph *A*								
+DEEP RIVER (RANDOLPH/MOORE) AQUATIC HABITAT	ROBBINS BENNETT	A	B1	PW	0	6C	P2	
Randolph *B*								
+BIRKHEAD UPLAND FOREST NATURAL AREA	ELEAZER FARMER	B	B3	USFS	6A/2B	6A/2B	P5	RHA/EWA
Richmond *A*								
+SANDHILLS GAME LAND MEGASITE		A	B1				P2	
->BONES FORK PINE AND SHRUB COMMUNITY	HOFFMAN	A	B2	WRC	2A	2A	P4	RHA
->CAMP MACKALL	PINEBLUFF HOFFMAN	B	B2	DOD	0	2B	P1	
->DROWNING CREEK AQUATIC HABITAT	NORMAN HOFFMAN WEST END CANDOR	B	B2				P2	
->MILLSTONE CREEK	MILLSTONE LAKE	B	B3	WRC	2A	2A	P4	RHA
->NAKED CREEK AQUATIC HABITAT	NORMAN HOFFMAN	B	B2	PW PW	1 6C	6C 6C	P3	ORW ORW
->NAKED CREEK WHITE CEDAR STAND	MILLSTONE LAKE	B	B2	WRC	2A	2A	P4	RHA
->BEAVER DAM CREEK SHRUB COMMUNITY	MILLSTONE LAKE	C	B3	WRC	2A	2A	P4	RHA
->ROCKY FORD CREEK MOUNTAIN LAUREL BLUFF	MILLSTONE LAKE	C	B3	WRC	2A	2A	P4	RHA
->WHITE CEDAR BRANCH HEAD	HOFFMAN	C	B2	WRC	2A	2A	P4	RHA
Richmond *B*								
+PEE DEE RIVER GABBRO SLOPES	ROCKINGHAM	B	B2	PRV	1/2A	8/2A	P1	PART RHA
Richmond *C*								
+PEE DEE RIVER FALL ZONE	MORVEN EAST	C	B4	PRV	0	2A+	P4	
+PORPHYRITIC GRANITE SITE	ROCKINGHAM	C	B4	PRV	0	2A+	P4	
+SPHEROIDAL WEATHERING GEOLOGIC SITE	ELLERBE	C	B5	PRV	0	2A+	P4	
Robeson *A*								
+DUNAHOE BAY	RENNERT	A	B1	TNC PRV	8/2A 0	9 8/9	P3	RHA
+GOOSE POND CAROLINA BAY	PARKTON	A	B1	TNC PRV	8/2A 1	8/9 8/9	P1	RHA
+MOSS NECK SAVANNA	PEMBROKE	A	B2	PRV	1	2A+	P2	
+OAK SAVANNA BAY	RENNERT	A	B2	TNC PRV	8/2A 0	9 8/2A/9	P1	RHA
+PRETTY POND CAROLINA BAY	SAINT PAULS	A	B2	TNC PRV	8/2A 0	9 8/2A/9	P1	RHA
Robeson *B*								
+LUMBER RIVER MACROSITE		B	B2					
->MILL BRANCH SAND RIDGE	PEMBROKE	B	B3	PRV	0	2A+	P3	

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->NET HOLE-BUCK LANDING SWAMP	EVERGREEN SOUTHEAST LUMBERTON	B	B3	PRV	0	8/2A	P3	
->BLUFF SWAMP	EVERGREEN	C	B3	PRV	0	2A+	P2	
->MAXTON AIRPORT SWAMP	WAKULLA	C	B3	PRV LOCAL	0 0	2A+ 2A+	P3	
->PRINCESS ANNE SWAMP	FAIRMONT FAIR BLUFF	C	B3	PRV	0	2A+	P3	
->SPRING BRANCH CHURCH SWAMP	WAKULLA WAGRAM	C	B3	PRV	0	2A+	P3	
+BIGGS LONGLEAF STAND	NORTHWEST LUMBERTON	B	B3	PRV	0	2A+	P3	
Robeson *C*								
+BULLFROG BAY	WAKULLA	C	B3	PRV	0	2A+	P2	
+CHAIN POND BAY	RENNERT	C	B3	PRV	0	2A+	P2	
+CYPRESS BAY	RENNERT	C	B3	PRV	0	2A+	P2	
+GREAT DESERT LONGLEAF STANDS	RENNERT	C	B3	PRV	0	2A+	P3	
+GUM POND BAY	PARKTON	C	B3	PRV	0	2A+	P2	
+JUDGE'S BAY (THE CYPRESS POND)	SAINT PAULS	C	B3	PRV	0	2A+	P2	
+LOWER LUMBER RIVER SWAMP FOREST	EVERGREEN SOUTHEAST LUMBERTON	C						
+PHILADELPHUS LONGLEAF STAND	RED SPRINGS	C	B3	PRV	0	2A+	P3	
+PISTOL POND	SAINT PAULS	C	B2	PRV	0	2A+	P2	
+REX RENNERT BAY (DEAD HORSE BAY)	RENNERT	C	B3	PRV	0	2A+	P2	
+SALT MARSH BAY	RENNERT	C	B3	PRV	0	2A+	P2	
+TOOTHACHE (SHOREBIRD) BAY	WAKULLA	C	B3	PRV	0	2A+	P3	
Rockingham *B*								
+CEDAR MOUNTAIN	MAYODAN	B	B1	PRV	0/2A	8/9/2A	P2	PART RHA
+DAN RIVER AQUATIC HABITAT (ROCKINGHAM SECTION)	MAYODAN SOUTHWEST EDEN SOUTHEAST EDEN	B	B3	PW	0	6C	P2	
+DAN RIVER TRIASSIC BASIN CONGLOMERATE EXPOSURES	NE EDEN SE EDEN	B	B4	PRV	1/2A	2A	P4	PART RHA
+JACOBS CREEK SLOPES	MAYODAN	B	B3	PRV	0	2A+	P3	
+MAYO RIVER BLUFFS	MAYODAN	B	B2	PRV	0	2A+	P3	
+ROCK HOUSE CREEK SLOPES	SOUTHWEST EDEN	B	B3	PRV	0	2A+	P2	
Rockingham *C*								
+BEAR SLIDE BLUFF	SOUTHEAST EDEN	C	B3	RCC/LOCAL	2A	2A	P5	RHA
+LEAKSVILLE LOAM FORESTS	NORTHEAST EDEN	C	B3	PRV	0	2A+	P2	
+TROUBLESOME CREEK	ELLISBORO	C	B3	PRV	1	2A+	P3	
Rowan *B*								
+GOLD HILL FLATS	GOLD HILL	B	B2	PRV	0	2A+	P1	
Rowan *C*								

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+DUNN MOUNTAIN	ROCKWELL SALISBURY	C	B3	PRV	0	2A+	P3	
+SALISBURY NATURE STUDY AREA	SALISBURY	C	B3	LOCAL/CC	2A	2A	P5	RHA
+YADKIN RIVER-GRANTS CREEK BOTTOMLAND FOREST	SALISBURY	C	B3	PRV	0	2A+	P3	
+YOUNGS MOUNTAIN	CLEVELAND	C	B3	PRV	1	2A	P3	
Rutherford *A*								
+HICKORYNUT GORGE MACROSITE		A	B1					
->BAT CAVE	BAT CAVE	A	B1	PRV/TNC	1/5/2A	8/9	P4	RHA (LEASE TO TNC)
->CHIMNEY ROCK NATURAL AREA	BAT CAVE	A	B1	PRV	1/2A	2A/7A	P4	RHA
->WORLDS EDGE / SUGARLOAF MOUNTAIN	BAT CAVE LAKE LURE	B	B1	PRV	0/1	2A	P3	
->BOTTOMLESS POOLS	LAKE LURE	C	B1	PRV	2A	2A	P5	RHA
->RUMBLING BALD AND SHUMONT MOUNTAINS	LAKE LURE BAT CAVE	C	B3	PRV	0	2A	P3	
+HENSON'S CREEK RAVINE	FINGERVILLE EAST	A	B2	PRV	2A	2A	P4	RHA
Rutherford *B*								
+SANDY MUSH OUTCROP	FOREST CITY	B	B3	PRV	0	2A	P3	
Sampson *B*								
+CUTGRASS (F-11) CAROLINA BAY	GARLAND	B	B2	PRV	2A	2A/4B	P4	RHA
+SOUTH RIVER AQUATIC HABITAT	TOMAHAWK ROWAN GARLAND	B	B1	PW	1	6C	P2	
Sampson *C*								
+NEWKIRK TOWER CAROLINA BAY	TOMAHAWK	C	B3	PRV	0	2A+	P3	
+SOUTH RIVER SWAMP FOREST	TOMAHAWK ROWAN WHITE LAKE	C	B3	PRV	0	2A+	P3	
+UPPER BLACK RIVER SWAMP FOREST	TOMAHAWK HARRELLS	C	B3	PRV	0	2A+	P3	
Scotland *A*								
+SANDHILLS GAME LAND MEGASITE		A	B1				P2	
->BEAVER DAM CREEK-LITTLE MUDDY CREEK	SILVER HILL PINEBLUFF	A	B1	WRC	1/2A	2A	P3	RHA
->BOG HOLE	MARSTON	A	B2	WRC	8/2A	2A	P4	RHA
->CRAWFORD LAKE	MARSTON	A	B1	WRC	1	2A	P2	
->STILL LANE SEEPAGE SLOPES	MARSTON SILVER HILL	A	B2	WRC	2A	2A	P4	RHA
->BEAVER DAM CREEK RESINOUS BONESET SITE	PINEBLUFF SILVER HILL	B	B3	WRC	1	2A	P2	
->CAMP MACKALL	PINEBLUFF HOFFMAN	B	B2	DOD	0	2B	P1	
->CREEK & CORRIDOR BELOW KINNEY CAMERON LAKE	HOFFMAN MARSTON	B	B3	WRC	2A	2A	P1	RHA

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->JORDAN'S CREEK	MARSTON	B	B3	WRC		2A	2A	P4	RHA
->LUMBER RIVER-DROWNING CREEK FLATWOODS & SWAMP	SILVER HILL	B	B3	WRC		2A	2A	P4	RHA
->PINEY POOLS NORTH OF LITTLE MUDDY CREEK	SILVER HILL	B	B2	WRC		1	2A	P3	
->SCOTLAND LANE ANNUAL BURN AREA	MARSTON	B	B3	WRC		2A	2A	P4	RHA
->STRAUSBURG ROAD OLD GROWTH LONGLEAF STAND	SILVER HILL	C	B4	WRC		2A	2A	P4	RHA
+MCINTOSH BAYS (TUNSTALL'S, BIG CYPRESS, RABBIT RUN)	LAURINBURG	A	B1	PRV TNC		0/1/2A 8/2A	8/9 8/9	P1	PART RHA RHA
Scotland *B*									
+LUMBER RIVER MACROSITE		B	B2						
->MAXTON AIRPORT SWAMP	WAKULLA	C	B3	PRV LOCAL		0 0	2A+ 2A+	P3	
->SPRING BRANCH CHURCH SWAMP	WAKULLA WAGRAM	C	B3	PRV		0	2A+	P3	
+GREEN POND BAY	GHIO	B	B2	PRV		0	2A+	P3	
+STATE-LINE PRAIRIE BAY	JOHNS	B	B2	TNC PRV		8/2A 1	8/9 8/9	P1	RHA
Scotland *C*									
+CARPENTER SANDHILLS	SILVER HILL	C	B3	PRV		0	2A+	P3	
+CHORUS (KNEEDEEP) BAY	MCCOLL	C	B3	PRV		0	2A+	P2	
+RHEXIA (GOODNEWS) BAY	JOHNS	C	B2	PRV		0	2A+	P2	
Stanly *A*									
+PALESTINE SCHWEINITZ'S SUNFLOWER SITE	NEW LONDON	A	B1	PRV		0	2A+	P3	
Stanly *B*									
+PEE DEE RIVER BALD EAGLE FORAGING HABITAT	BADIN MORROW MOUNTAIN	B	B3	PRV		0	2A+	P3	
+ROCKY RIVER-MORGAN'S BLUFF	STANFIELD	B	B2	UNCC		2A	2A	P4	RHA
Stanly *C*									
+FLAT WOODS NEAR LOCUST	LOCUST	C	B3	PRV		0	2A+	P3	
+KINZA SLATE BLUFF	STANFIELD	C	B3	PRV		0	2A+	P3	
+MORROW MOUNTAIN STATE PARK	MORROW MOUNTAIN BADIN	C	B3	NCSP		1/2A	2A/9	P4	PART RHA
Stokes *A*									
+DAN RIVER AQUATIC HABITAT (STOKES SECTION)	DANBURY HANGING ROCK STUART	A	B1	PW		0	6C	P2	
+HANGING ROCK STATE PARK	HANGING ROCK DANBURY KING	A	B1	PRV NCSP		0/1 1/2A	8 2A/9	P4	 PART RHA
+LITTLE PETERS CREEK BLUFFS	STUART SE	A	B1	PRV		1	2A+	P4	
Stokes *B*									

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
+GEORGE'S MILL BITTERCRESS SITE	STUART SE	B	B2	PRV	1	2A+	P3	
Stokes *C*								
+DAN RIVER CLIFFS	AYERSVILLE	C	B3	PRV	0	2A+	P3	
+DAN RIVER HEMLOCK BLUFF	DANBURY	C	B3	PRV	0	2A+	P3	
+DAN RIVER SHORES RICH SLOPE	HANGING ROCK	C	B3	PRV	0	2A+	P3	
+MOORES SPRINGS	HANGING ROCK	C	B3	PRV	0	2A+	P3	
+SAURATOWN MOUNTAIN	KING PINNACLE HANGING ROCK PILOT MOUNTAIN	C	B2	PRV	0	2A+	P3	
Surry *B*								
+FISHER PEAK	LAMSBURG	B	B3	PRV	0	2A+	P4	
+PILOT MOUNTAIN STATE PARK: PILOT MOUNTAIN SECTION	PINNACLE SILOAM	B	B2	NCSP	8/2A	9	P4	RHA
Surry *C*								
+SADDLE MOUNTAIN	CUMBERLAND KNOB ROARING GAP	C	B3	TNC	8	8/2A	P4	
+PILOT MOUNTAIN STATE PARK: YADKIN RIVER SECTION	PINNACLE SILOAM	C	B3	NCSP	2A	2A/9	P4	RHA
Swain *A*								
+GREAT SMOKY MOUNTAINS NATIONAL PARK	CLINGMANS DOME SILERS BALD SMOKEMONT BUNCHES BALD THUNDERHEAD MOUNTAIN CADES COVE LUFTEE KNOB DELLWOOD MOUNT GUYOT COVE CREEK GAP CALDERWOOD TAPOCO FONTANA DAM TUSKEEGEE NOLAND CREEK BRYSON CITY WHITTIER WATERVILLE HARTFORD	A	B1	NPS	2B	2B/6A	P4	RHA/NAB
+LITTLE TENNESSEE RIVER AQUATIC HABITAT	WESSER FRANKLIN ALARKA	A	B1	PW	1	2A/6C	P3	
+NANTAHALA GORGE--BLOWING SPRING	HEWITT	A	B1	USFS	2B	6A/2B	P4	RHA
Swain *B*								

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
+ALARKA LAUREL	GREENS CREEK	B	B2	PRV	1	2A/8	P2	
Transylvania *A*								
+ESCARPMENT GORGES MEGASITE		A	B1				P1	
->HORSEPASTURE RIVER GORGE	REID	A	B1	USFS	2B	2B/6A	P3	PART RHA
				PRV	1	2A/8		
->THOMPSON RIVER GORGE	REID	A	B1	PRV	1	2A/8	P3	
->TOXAWAY RIVER GORGE	REID	A	B1	PRV	0/1/2A	2A/8	P3	PART RHA
->WHITEWATER RIVER FALLS AND GORGE	CASHIERS	A	B1	PRV	1	2A/8	P3	
				USFS	2B	2B/6A		RHA
->SAVANNAH RIVER HEADWATERS AQUATIC HABITATS	REID	B	B3	PW	0/1	6C	P3	
+CEDAR MOUNTAIN BOG	BREVARD	A	B1	PRV	0	8	P1	PARTIALLY DAMAGED
+DEVIL'S COURTHOUSE	SAM KNOB	A	B1	USFS	0	2B	P4	
				NPS	8	2B		
+LITTLE RIVER-DUPONT NATURAL AREAS	STANDINGSTONE MOUNTAIN BREVARD	A	B2	PRV	2A	2A/8	P2	RHA
+LOOKING GLASS ROCK	SHINING ROCK	A	B2	USFS	6A/2B	6A/2B	P4	RHA
+THE PINK BEDS	SHINING ROCK	A	B1	USFS	1/2B	6A/2B	P3	PART RHA
Transylvania *B*								
+CHESTNUT BALD-SILVERMINE BALD	SAM KNOB	B	B2	NPS	2B	2B	P5	RHA
+JOHN ROCK	SHINING ROCK	B	B3	USFS	2B	2B	P4	RHA
+MOUNT PISGAH	CRUSO	B	B2	USFS	2B	2B	P4	RHA
	DUNSMORE MOUNTAIN			NPS	2B	2B		RHA
+TANASEE BALD-TANASEE RIDGE	SAM KNOB	B	B3	USFS	0	2B	P3	
				NPS	0	2B		
Transylvania *C*								
+BIG RIDGE	ROSMAN	C	B3	USFS	0	2B	P3	
+DISMAL FALLS	LAKE TOXAWAY	C	B3	USFS	2B	2B	P4	RHA
+DUNNS CREEK SLOPES	BREVARD	C	B3	PRV	0	2A+	P3	
+FRYING PAN GAP	CRUSO	C	B3	NPS	2B	2B	P4	RHA
+QUEBEC MOUNTAIN SLOPE	ROSMAN	C	B3	USFS	0	2B	P3	
Tyrrell *A*								
+ALLIGATOR RIVER WETLANDS MEGASITE		A	B2					
->BUCK ISLAND BAY FOREST	FAIRFIELD NE	C	B3	PRV	1	8/2B/6A	P3	
+LAKE PHELPS STATE LAKE	CRESWELL NEW LAKE NW PUNGO LAKE ROPER SOUTH	A	B1	NCSP	2A	2A/9	P4	RHA
Tyrrell *B*								
+PETTIGREW STATE PARK	CRESWELL NEW LAKE NW	B	B3	NCSP	1/2A	2A	P4	PART RHA
+SCUPPERNONG RIVER SWAMP FOREST	COLUMBIA WEST	B	B2	TNC	8	8/9	P2	
				FWS	1	2B/6A		
				PRV	0	2A/8		
+UPPER ALLIGATOR RIVER	FAIRFIELD NW	B	B2	PRV	0	2A+	P3	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
POCOSIN	NEW LAKE SCOTIA CRESWELL			FWS	1	2B/6A		
Tyrrell *C*								
+ALBEMARLE SOUND LOW SHORELINE	FORT LANDING	C	B3	PRV	0	2A+	P3	
+ALLIGATOR CREEK-SECOND CREEK SWAMP FOREST	FORT LANDING FRYING PAN	C	B3	PRV	0	2A+	P3	
+HARVESTER ROAD TALL POCOSIN	NEW LAKE NEW LAKE NW CRESWELL SE CRESSWELL	C	B3	FWS PRV	1 0	2B/6A 2A+	P3	
+UPPER ALLIGATOR RIVER MARSH	FAIRFIELD FAIRFIELD NW	C	B3	PRV FWS	0 1	2A+ 2B/6A	P3	
Union *A*								
+MINERAL SPRINGS BARRENS	WAXHAW	A	B1	PRV	0	2A/8	P1	
+WAXHAW SUNFLOWER SITE	WAXHAW	A	B1	NCDOT PRV	2A 0	2A 2A	P4	MANAGEMENT AGREEMENT
Vance *C*								
+TABBS CREEK RICH SLOPE	KITTRELL	C	B3	PRV	0	2A+	P3	
+TAR RIVER CANASSIA SLOPE	KITTRELL	C	B3	PRV	0	2A+	P3	
Wake *A*								
+LITTLE RIVER (WAKE/JOHNSTON/WAYNE) AQUATIC HABITAT	FLOWERS STANCILS CHAPEL ZEBULON NORTHWEST GOLDSBORO PRINCETON KENLY WEST	A	B1	PW	1	6C	P1	
+MITCHELL'S MILLPOND STATE NATURAL AREA	ROLESVILLE	A	B2	NCSP PRV	2A 1	9 8/9	P4	RHA
+WALNUT CREEK SUMAC SITE	GARNER	A	B1	DOT LOCAL	1 1	2A 2A	P3	
Wake *B*								
+FALLS LAKE NATURAL AREAS MACROSITE	CREEDMORE BAYLEAF NORTHEAST DURHAM WAKE FOREST	B	B2				P4	
->ADAM MOUNTAIN	BAYLEAF	B	B2	COE/WRC	2B	2B	P4	RHA. PRIVATE PART DAMAGED
->B. W. WELLS INTERPRETIVE AREA	BAYLEAF CREEDMOOR	C	B4	COE/NCSP	2B	2B	P4	RHA
->OLD STILL CREEK	CREEDMOOR BAYLEAF	C	B3	COE/WRC	2B	2B	P4	RHA
->UPPER BARTON CREEK	BAYLEAF	C	B3	COE/WRC	2B	2B	P4	RHA
+JORDAN LAKE NATURAL AREAS MACROSITE	MERRY OAKS FARRINGTON GREEN LEVEL NEW HILL SOUTHWEST DURHAM	B						

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner	Typ	Current Status	Intended Status	Prot Urg	Comments
+HEMLOCK BLUFFS STATE NATURAL AREA	APEX	B	B3	NCSP LOCAL		2A 1	9 9	P4	RHA
+SOUTHWEST ROLESVILLE GRANITIC FLATROCKS	ROLESVILLE	B	B3	PRV		0	2A+	P3	
+SWIFT CREEK BLUFFS	APEX	B	B3	PRV		1	7/8	P2	PURCHASE BY TLC IN PROGRESS
+THE ROCKS	KNIGHTDALE	B	B3	TLC		8/2A	8/2A	P3	RHA
+WILLIAM B. UMSTEAD STATE PARK	RALEIGH WEST CARY BAYLEAF SOUTHEAST DURHAM	B	B2	NCSP		2A	9	P3	RHA
Wake *C*									
+CAMP BRANCH HEARTLEAF SITE	APEX	C	B3	PRV		0	2A+	P3	
+LAKE RALEIGH HARDWOOD FOREST	RALEIGH WEST	C	B3	NCSU		0	2A	P2	
+MIDDLE CREEK BLUFFS AND SLOPES	APEX	C	B3	PRV		0	2A+	P2	
+ROBERTSON'S MILLPOND AND BUFFALO CREEK	KNIGHTDALE	C	B3	PRV		0/2A	8	P3	PART RHA
+SCHENK FOREST NATURAL AREA	RALEIGH WEST	C	B1	NCSU		1	2A+	P1	
+SUNSET LAKE SALAMANDER PONDS	APEX	C	B3	PRV		0	2A+	P3	
+TEMPLE ROCK	KNIGHTDALE	C	B3	PRV		7/2A	7/2A	P4	RHA/TLC HOLD EASEMENT
+WILD CAT HOLLOW	ROLESVILLE	C	B3	PRV		1/2A	2A	P3	PART RHA
Washington *A*									
->CONABY CREEK/ROANOKE RIVER SWAMP	WESTOVER	B	B2	PRV		0/1	8/2B	P3	
+LAKE PHELPS STATE LAKE	CRESWELL NEW LAKE NW PUNGO LAKE ROPER SOUTH	A	B1	NCSP		2A	2A/9	P4	RHA
Washington *B*									
+EAST DISMAL SWAMP	PLYMOUTH EAST ROPER SOUTH	B	B3	PRV		0	2A+	P1	PART DESTROYED
+PETTIGREW STATE PARK	CRESWELL NEW LAKE NW	B	B3	NCSP		1/2A	2A	P4	PART RHA
+PUNGO LAKE AREA	PUNGO LAKE	B	B3	FWS		2B/6A	2B/6A	P4	PART RNA
Washington *C*									
+BULL NECK SWAMP	LEONARD'S POINT COLUMBIA WEST	C	B3	PRV		0	2A+	P2	PART DESTROYED
+CONABY SWAMP NATURAL AREA	PLYMOUTH EAST	C	B3	NCC		2A	2A	P4	RHA
+HIGHWAY 99 NONRIVERINE HARDWOOD FLAT	PLYMOUTH EAST	C	B3	PRV		0	2A+	P3	
+VAN SWAMP	HOKE PIKE ROAD	C	B3	PRV		0	2A	P2	PART DESTROYED
Watauga *A*									
+BEECH CREEK BOG	VALLE CRUCIS	A	B1	PRV		0	2A+	P2	

Natural Area Name	Quad	Site Sign	Biodiv Rank	Owner Typ	Current Status	Intended Status	Prot Urg	Comments
+GRANDFATHER MOUNTAIN	GRANDFATHER	A	B1	PRV	2A/7A	7A/9	P1	RHA
	MOUNTAIN			NPS	2B	2B		RHA
	VALLE CRUCIS			PRV	1	7/8/9		
+HANGING ROCK MOUNTAIN	VALLE CRUCIS	A	B1	PRV	1/2A/7A	2A/7A	P1	PART RHA
+JULIAN PRICE PARK WETLANDS NATURAL AREA	BOONE	A	B2	NPS	2B	2B	P4	
+LONG HOPE VALLEY	ZIONVILLE BALDWIN GAP	A	B1	PRV	1	7/8/9	P3	
Watauga *B*								
+DEEP GAP BOG	DEEP GAP	B	B2	NPS	1	2B	P1	
				PRV	0	2A		
+HOWARD'S CREEK FLOODPLAIN	ZIONVILLE	B	B3	PRV	0	2A+	P3	
+POTATO HILL BOG	ZIONVILLE	B	B1	PRV	1	2A/7/8	P2	
+POTATO HILL-RICH MOUNTAIN BALD	ZIONVILLE	B	B1	PRV	1	2A+	P2	
Watauga *C*								
+RICH MOUNTAIN	BOONE	C	B3	PRV	0	2A+	P2	
+SNAKE MOUNTAIN	ZIONVILLE	C	B3	PRV	0	2A+	P3	
Wayne *A*								
+LITTLE RIVER (WAKE/JOHNSTON/WAYNE) AQUATIC HABITAT	FLOWERS STANCILS CHAPEL ZEBULON NORTHWEST GOLDSBORO PRINCETON KENLY WEST	A	B1	PW	1	6C	P1	
Wayne *C*								
+CLIFFS OF THE NEUSE STATE PARK	SEVEN SPRINGS WILLIAMS	C	B3	NCSP	2A	2A/9	P4	
Wilkes *A*								
+STONE MOUNTAIN ESCARPMENT COMPLEX MACROSITE	GLADE VALLEY WHITEHEAD	A	B2				P3	
->STONE MOUNTAIN STATE PARK	GLADE VALLEY	A	B2	NCSP	8/2A	9/2A	P3	RHA/POTENTIAL DNP
	TRAPHILL WHITEHEAD			PRV	1	1/2A/8/9		
->DOUGHTON PARK	WHITEHEAD	B	B2	NPS	8/2B	8/2B	P5	PARTS RHA
Wilkes *C*								
+RENDEZVOUS MOUNTAIN STATE FOREST NATURAL AREA	PURLEAR	C	B2	NCSF	2A	2A/9	P4	
Yadkin *C*								
+PILOT MOUNTAIN STATE PARK: YADKIN RIVER SECTION	PINNACLE SILOAM	C	B3	NCSP	2A	2A/9	P4	RHA
+SHALLOWFORD ROAD BLUFF	FARMINGTON	C	B3	PRV	0	2A+	P3	
Yancey *A*								

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Natural Area Name           Quad                 Site Biodiv Owner Typ Current   Intended  Prot Comments
                                                 Sign Rank             Status    Status    Urg

+BLACK MOUNTAIN-CRAGGY                           A    B1                                   P3
MOUNTAIN COMPLEX MEGASITE
->BLACK MOUNTAIN-CELO       CELO                 A    B1     USFS      2B/6A     2B/6A     P4    RHA/PART RNA
KNOB NATURAL AREA           MT. MITCHELL
->MOUNT MITCHELL STATE      MT. MITCHELL         A    B1     PRV       1         8/9       P3
PARK                        MONTREAT                         NCSP      8/2A      9               RHA
->CANE RIVER UPPER          MT. MITCHELL         B    B3     PRV       1         2A/4A/7A  P4    REFUSED REGISTRY
WATERSHED
->UPPER BOWLENS CREEK       MT. MITCHELL         C    B3     USFS      0         2B        P3
                            BURNSVILLE
+BIG BALD MOUNTAIN          BALD CREEK           A    B1     USFS      2B        2B/6A     P4    RHA
+CELO COMMUNITY NATURAL     CELO                 A    B1     PRV       2A        2A/9      P4    RHA
AREA
+NOLICHUCKY RIVER GORGE     CHESTOA              A    B1     USFS      1         2B/6A     P3
                            HUNTDALE

 *Yancey*            *B*
+BACCHUS SPIRAEA SITES      MICAVILLE            B    B2     PRV       0         2A        P3
+CANE RIVER AQUATIC         HUNTDALE             B    B2     PW        0         6C        P3
HABITAT                     CHESTOA
                            BURNSVILLE
                            BALD CREEK
+NORTH TOE                  HUNTDALE             B    B2     PW        0         6C        P3
RIVER-NOLICHUCKY RIVER
AQUATIC HABITAT

 *Yancey*            *C*
+OGLE MEADOWS               MT. MITCHELL         C    B3     PRV       0         2A+       P1
+SOUTH TOE RIVER AQUATIC    CELO                 C    B2     PW        2A        2A        P3
HABITAT

1113 Records Processed
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HIGHEST PRIORITY NATURAL AREAS, 1991

The following lists identify those North Carolina natural areas that the Natural Heritage Program has determined, on the basis of existing inventory information, to be of highest priority for protection. Two lists, each arranged two different ways, are presented. The first list presents the 386 high priority sites, arranged alphabetically. These areas are a subset of the total Natural Heritage Priority List. All of these sites contain ecological resources considered to be of high significance from a national or statewide perspective. All contain natural diversity elements that have high global and state rankings.

The second list contains the high priority sites that occur as part of macrosites or megasites. These clusters have greater ecological significance than the sum of the individual sites within them. Only standard sites that are on the first list are included. Some of the macrosites and megasites also contain additional sites of lower priority.

The third list contains the 153 sites that have been determined to be of the highest priority for protection. It represents the best sites on the first list.

The fourth list contains the highest priority sites that are parts of macrosites or megasites.

Additional information for each site includes:

(1) County location
(2) Site significance rating:
    A - National
    B - State
    C - Regional
(3) Biodiversity rating: 1-5 based on rarity and endangerment status of the biological elements.
(4) Owner code
(5) Current protection status: 1-9 coding
(6) Intended/recommended protection method: 1-9 coding
(7) Protection urgency: based on threat of destruction on 1-5 scale, with 1 meaning immediately threatened with a year, and 2 meaning that destruction is imminent within 5 years.

Actions are recommended ("intended status" code) to provide greater protection (for example, by registry agreement, easement, acquisition, dedication, etc.). Like the total priority list, the "highest protection priority list" is dynamic and will be revised as changes occur in resource information, ranking evaluation, land uses and threats, and protection statuses.

HIGH PRIORITY SITES

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ALARKA LAUREL	Swain	B	B2	PRV	Registry or acquisition	Unprotected; Proposed Development	P2
ALLIGATOR RIVER SWAMP FOREST	Dare Hyde	A	B2	DOD FWS PRV	Research Natural Area designation, registry	Small DOD portion is Registered Natural Area; most is National Wildlife Refuge	P3
ALLIGATOR RIVER-SWAN LAKE SWAMP FOREST	Hyde	A	B2	FWS PRV	Research Natural Area designation, registry; acquire outstanding white cedar timber rights	Most is National Wildlife Refuge	P3
ANGOLA BAY GAME LAND	Pender Duplin	B	B2	PRV WRC	Registry or dedication	No formal protection status	P3
ANGOLA CREEK FLATWOODS	Pender	B	B2	TNC	Dedication	Nature Conservancy Preserve	P4
ANTIOCH BAY	Hoke	A	B1	PRV TNC	Continued acquisition, dedication	Most is Nature Conservancy Preserve, Registered	P2
ATLANTIC NATURAL AREA	Carteret	B	B3	FWS DUKE PRV	Registry, acquisition	Unprotected	P3
BADIN UPLAND DEPRESSION SWAMPS	Montgomery	B	B2	USFS	Registry	Registered	P4
BALD HEAD ISLAND	Brunswick	A	B1	PRV	Conservation acquisition, dedication	Unprotected, ongoing development, National Natural Landmark	P2
BALD HEAD ISLAND STATE NATURAL AREA	Brunswick	B	B2	WRC NCSP	Dedication	Registered, National Natural Landmark	P4
BALSAM GAP	Haywood Jackson	A	B2	NPS	Registry	Registered	P4
BAT CAVE	Rutherford	A	B1	PRV/ TNC	Conservation easement, dedication, or acquisition	Leased to NC Nature Conservancy; Registered	P4
BAT FORK BOG	Henderson	A	B1	PRV	Acquisition and dedication	Unprotected	P1

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ALARKA LAUREL	Swain	B	B2	PRV	Registry or acquisition	Unprotected; Proposed Development	P2
ALLIGATOR RIVER SWAMP FOREST	Dare Hyde	A	B2	DOD FWS PRV	Research Natural Area designation, registry	Small DOD portion is Registered Natural Area; most is National Wildlife Refuge	P3
ALLIGATOR RIVER-SWAN LAKE SWAMP FOREST	Hyde	A	B2	FWS PRV	Research Natural Area designation, registry; acquire outstanding white cedar timber rights	Most is National Wildlife Refuge	P3
ANGOLA BAY GAME LAND	Pender Duplin	B	B2	PRV WRC	Registry or dedication	No formal protection status	P3
ANGOLA CREEK FLATWOODS	Pender	B	B2	TNC	Dedication	Nature Conservancy Preserve	P4
ANTIOCH BAY	Hoke	A	B1	PRV TNC	Continued acquisition, dedication	Most is Nature Conservancy Preserve, Registered	P2
ATLANTIC NATURAL AREA	Carteret	B	B3	FWS DUKE PRV	Registry, acquisition	Unprotected	P3
BADIN UPLAND DEPRESSION SWAMPS	Montgomery	B	B2	USFS	Registry	Registered	P4
BALD HEAD ISLAND	Brunswick	A	B1	PRV	Conservation acquisition, dedication	Unprotected, ongoing development, National Natural Landmark	P2
BALD HEAD ISLAND STATE NATURAL AREA	Brunswick	B	B2	WRC NCSP	Dedication	Registered, National Natural Landmark	P4
BALSAM GAP	Haywood Jackson	A	B2	NPS	Registry	Registered	P4
BAT CAVE	Rutherford	A	B1	PRV/ TNC	Conservation easement, dedication, or acquisition	Leased to NC Nature Conservancy; Registered	P4
	Henderson	A	B1	PRV	Acquisition and dedication	Unprotected	P1

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
BATTERY ISLAND	Brunswick	A	B2	NC/AUD	Dedication	Registered	P4
BEAVER DAM CREEK-LITTLE MUDDY CREEK	Scotland	A	B1	WRC	Registry	Registered	P3
BEAVERDAM CREEK/GRASSY FORK HEARTLEAF PLANTAIN SITE	Davidson	A	B2	PRV	Registry, Outstanding Resource Water designation	Part Registered; Nature Conservancy management agreement with 2 owners; rest unprotected	P2
BEECH CREEK BOG	Watauga	A	B1	PRV	Registry	Unprotected	P2
BETHEL/GRINDLE HARDWOOD FLATS	Pitt	A	B2	PRV	Acquisition or Registry	Unprotected	P3
BIG BALD MOUNTAIN	Yancey	A	B1	USFS	Registry, Special Interest Area, Research Natural Area designation	Registered	P4
BIG FLATTY CREEK FORESTS AND MARSHES	Pasquotank	B	B1	PRV	Registry or acquisition	Unprotected	P2
BIG YELLOW MOUNTAIN	Avery	A	B1	TNC SAHC PRV	Dedication	TNC part is Dedicated, SAHC part is Registered	P3
BLACK ANKLE BOG	Montgomery	A	B1	PRV	Acquisition and dedication	Unprotected	P2
BLACK MOUNTAIN-CELO KNOB NATURAL AREA	Yancey	A	B1	USFS	Registry, Special Interest Area, Research Natural Area designation	Registered	P4
BLACK RIVER CYPRESS FOREST	Bladen Pender	A	B1	TNC PRV	Registry, conservation easement, acquisition, or dedication	Part Nature Conservancy preserve and easement	P3
BLACKROCK MOUNTAIN-GRANITE CITY	Macon Jackson	A	B1	USFS PRV	Registry and Research Natural Area designation, acquisition or registry of private portion	Forest Service portion proposed for registry; no current protection	P2
BLUFF MOUNTAIN	Ashe	A	B1	TNC PRV	Dedication, complete acquisition	Park Registered, Nature Conservancy Preserve, part unprotected	P2

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
BOG FLATROCK	Franklin	B	B3	PRV	Registry	Unprotected	P3
BOG HOLE	Scotland	A	B2	WRC	Registry	Registered	P4
BOILING SPRING LAKES--LIMESINK COMPLEX	Brunswick	B	B2	PRV	Acquisition	Unprotected	P2
BOILING SPRING LAKES--WETLAND COMPLEX	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
BONAS DEFEAT-TUCKASEGEE GORGE	Jackson	B	B2	USFS	Registry	Registered	P4
BONES FORK PINE AND SHRUB COMMUNITY	Richmond	A	B2	WRC	Registry	Registered	P4
BONNIE DOONE NATURAL AREA	Cumberland	B	B3	PRV LOCAL	Registry	Registered	P4
BROAD CREEK MARSHES	Camden	B	B3	PRV	Registry	Unprotected	P3
BROAD CREEK NECK	Bertie	B	B3	PRV	Acquisition, registry	Unprotected	P2
BROADNECK RIDGE	Bertie	B	B2	NCWRC	Research Natural Area designation	National Wildlife Refuge	P4
BROADNECK SWAMP	Bertie	B	B2	FWS	Registry or dedication	Nature Conservancy Preserve	P4
BRUNSWICK RIVER-CAPE FEAR RIVER MARSHES	Brunswick New Hanov	B	B2	PRV	Registry	Unprotected	P4
BRUSH CREEK BOG	Alleghany	B	B3	PRV	Registry	Unprotected	P3
BRUSH FENCE RIDGE-POINT MISERY	Buncombe	B	B1	USFS	Registry	Unprotected	P3
BRUSHY CREEK BLUFF	Cleveland	A	B2	PRV	Registry	Unprotected	P3
BRYANT MILL (GREENBANK) BLUFF	Brunswick	B	B2	PRV	Registry	No formal protection status	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
BUCK CREEK SERPENTINIZED OLIVINE BARRENS	Clay	A	B1	USFS	Registry, Research Natural Area designation	Registered	P3
BUCKSKIN CREEK-GREAT SWAMP	Currituck	B	B2	PRV	Registry	Unprotected	P2
BUSHY LAKE STATE NATURAL AREA	Cumberland	A	B1	NCSP PRV	Complete acquisition, dedication	Part of the Natural Area is Registered	P3
BUXTON WOODS	Dare	A	B1	NPS NCCM PRV	Acquisition of private portions dedication of state portions, registry of NPS portions	NPS part is registered, NCCM part is a Coastal Reserve	P1
BUZZARD POINT	Halifax	B	B3	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4
CAMASSIA SLOPES	Northampto	A	B2	TNC NCDC	Dedication	Part dedicated Nature Conservancy Preserve, part registered	P4
CAMP LEJEUNE G-10 IMPACT AREA	Onslow	B	B2	DOD	Registry, Research Natural Area designation	Unprotected	P3
CAMP LEJEUNE LIMESINK COMPLEX	Onslow	A	B2	DOD	Registry, Research Natural Area designation	Unprotected	P3
CANE RIVER AQUATIC HABITAT	Yancey	B	B2	PW	State designation as a high quality water	Unprotected	P3
CANE RIVER UPPER WATERSHED	Yancey	B	B3	PRV	Registry, conservation easement	Unprotected	P4
CAPE HATTERAS POINT	Dare	A	B1	NPS	Registry	Registered	P4
CAROLINA BEACH STATE PARK	New Hanove	B	B2	NCSP PRV DOD	Acquisition of private portions, dedication	Most registered	P3
CASWELL UPLAND HARDWOOD FOREST	Caswell	B	B3	NCWRC NSL PRV	Registry	Part Registered	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
CATAWBA COUNTY WILDLIFE CLUB HEARTLEAF SITE	Catawba	A	B2	PRV	Registry	Registered	P4
CEDAR CLIFF MOUNTAIN	Jackson	A	B1	PRV	Registry	Unprotected	P3
CEDAR CLIFF-WARRIOR MOUNTAINS	Polk	B	B2	TNC PRV	Registry	Unprotected	P3
CEDAR ISLAND NATIONAL WILDLIFE REFUGE	Carteret	A	B2	FWS	Research Natural Area designation	Registered	P4
CEDAR MOUNTAIN	Rockingham	B	B1	PRV	Registry, acquisition, or easement	Unprotected	P2
CEDAR MOUNTAIN BOG	Transylvan	A	B1	PRV	Acquisition	Unprotected	P1
CELO COMMUNITY NATURAL AREA	Yancey	A	B1	PRV	Registry or dedication	Registered	P4
CHARLIE LONG MILL POND-BIG COLLY BAY	Bladen	A	B3	NCSF	Dedication	Registered	P4
CHATTOOGA RIVER GORGE-ELLICOTT ROCK	Jackson Macon	B	B1	PRV USFS	Registry, Wilderness designation	National Wild & Scenic River Corridor, portion in Ellicott Rock National Wilderness Area	P4
CHEOAH RIVER FLOODPLAIN	Graham	A	B1	PRV USFS	Registry	Unprotected	P3
CHESTNUT BALD-SILVERMINE BALD	Haywood Transylv	B	B2	NPS	Registry	Registered	P5
CHIMNEY ROCK NATURAL AREA	Rutherford	A	B1	PRV	Conservation easement	Registered	P4
CHINKAPIN CREEK HARDWOOD FOREST	Hertford	B	B3	PRV	Registry or management agreement	No formal protection	P3
CHOWAN SAND BANKS	Gates	B	B3	PRV	Acquisition or easement	Unprotected	P1
		A	B2	USFS	Registry	Registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
CLARK ESTATE	Bertie	B	B2	PRV	Acquisition or registry	Unprotected	P3
COMPANY SWAMP	Bertie	B	B2	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4
CONABY CREEK/ROANOKE RIVER SWAMP	Washington	B	B2	PRV	Registry	Unprotected	P3
CONES FOLLY	Pender	B	B2	PRV	Registry	No formal protection	P3
CONINE ISLAND	Bertie	B	B2	WRC	Transfer to FWS, research Natural Area designation	Status in transition	P4
CONIOTT CHERRYBARK OAK RIDGE	Bertie	B	B2	PRV	Conservation easement, acquisition, or dedication	Unprotected	P2
COOLEEMEE PLANTATION ORBICULAR DIORITE AREA	Davie	A	B5	PRV	Registry	Registered	P5
COOLEY'S MEADOWRUE POWERLINE SITE	Onslow	A	B2	PRV	Registry, management agreement	Registered	P3
CORE BANKS AND PORTSMOUTH ISLAND	Carteret	A	B2	NPS	Registry	Registered	P4
COUNTY LINE FLATROCKS	Franklin	B	B3	PRV	Registry	Unprotected	P3
COVE CREEK-BRADLEY FALLS NATURAL AREA	Polk	A	B1	WRC	Dedication	No formal protection status	P4
CRAWFORD LAKE	Scotland	A	B1	WRC	Registry	No formal protection status	P2
CROATAN POCOSINS	Craven Carteret Jones	A	B2	USFS PRV	Registry, Research Natural Area, Wilderness designation	Registered, Part Wilderness Area and Research Natural Area	P4
CROOKED CREEK AQUATIC HABITAT	Franklin	A	B1	PW	Outstanding Resource Water or High Quality Water designation	Unprotected	P2
CROW CREEK FALLS	Macon	A	B1	PRV	Acquisition by Forest Service, registry	Unprotected	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
CROWDER'S MOUNTAIN STATE PARK	Gaston	B	B2	NCSP PRV	Dedication, acquisition of inholdings	Part registered	P2
CULLASAJA GORGE	Macon	A	B1	USFS	Registry	Registered	P4
CURRITUCK BANKS-COROLLA NATURAL AREA	Currituck	B	B3	FWS TNC NCCM	Dedication	Part dedicated and National Estuarine Reserve	P4
CURRITUCK BANKS-SWAN ISLAND NATURAL AREA	Currituck	B	B3	FWS PRV	Registry	Partially National Wildlife Refuge	P3
CURRITUCK CLUB NATURAL AREA	Currituck	B	B3	PRV	Registry	Registered but may be sold	P1
CUTGRASS (F-14) CAROLINA BAY	Sampson	B	B2	PRV	Registry and management agreement	Registered	P4
DAN RIVER AQUATIC HABITAT (STOKES SECTION)	Stokes	A	B1	PW	Outstanding Resource Water or High Quality Water Designation	Unprotected	P2
DEEP GAP BOG	Watauga	B	B2	NPS PRV	Registry	Unprotected, threatened	P1
DEEP RIVER (RANDOLPH/MOORE) AQUATIC HABITAT	Moore Randolph	A	B1	PW	Outstanding Resource Water or High Quality Water Designation	Designated critical habitat	P2
DEEP RIVER SPIDERWORT SLOPES	Moore	B	B3	PRV	Registry	Unprotected	P3
DEVIL'S COURTHOUSE	Transylv	A	B1	USFS NPS	Registry	Unprotected	P4
DEVIL'S GUT SLOUGH	Martin	A	B2	PRV TNC	Complete acquisition, dedication	Part Dedicated Nature Conservancy Preserve	P2
DONNELLEY BOG	Chatham	B	B2	TNC	Registry	Nature Conservancy Preserve	P4
DOUGHTON PARK	Alleghany Wilkes	B	B2	NPS	Registry	Registered	P5

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
DULANY BOG	Jackson	B	B2	PRV HBF	Registry	Part Registered	P3
DUNAHOE BAY	Robeson	A	B1	TNC PRV	Continued acquisition, dedication	Registered	P3
EAST DISMAL SWAMP	Washington	B	B3	PRV	Registry	Unprotected	P1
EAST FLAT ROCK BOG REMNANT	Henderson	A	B2	PRV	Management agreement	Nature Conservancy has management agreement on part	P1
ELLER SEEP	Clay	A	B1	PRV TNC	Registry	Nature Conservancy Preserve	P4
ELLICOTT MOUNTAIN POGONIA SITE	Jackson	A	B2	PRV	Acquisition	Unprotected	P3
ENO RIVER DIABASE SILL	Durham	A	B1	PRV	Registry and conservation easement	Part registered	P2
ETOWAH BOG	Henderson	A	B1	PRV	Registry	Part registered, rest unprotected	P2
ETOWAH SWAMP	Henderson	A	B2	USFS PRV	Registry	Unprotected	P2
FAIRCLOTH ROAD POND PINE POCOSIN	Dare	A	B2	DOD	Registry and Research Natural Area designation	Registered	P2
FIRES CREEK WATERSHED	Clay	B	B3	USFS PRV	Registry of watershed, Outstanding Resource Water designation of creek	Outstanding Resource Water	P3
FLAT LAUREL GAP BOG	Haywood	A	B1	NPS	Registry	Registered	P4
FLAT ROCK CHURCH OUTCROP	Anson	B	B2	PRV	Acquisition and dedication	Unprotected	P2
FLAT ROCK MOUNTAIN	Avery	B	B2	NPS	Registry	Registered	P5

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
FLAT SWAMP CREEK HEARTLEAF PLANTAIN SITE	Davidson	A	B2	PRV	Registry	Unprotected	P2
FORT BRAGG COLEMAN IMPACT AREA	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
FORT BRAGG MAC RIDGE IMPACT AREA	Cumberland Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
FORT BRAGG MCPHERSON IMPACT AREA	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
FORT FISHER COQUINA OUTCROP	New Hanove	B	B3	NCMF/NCCUL	Registry	Registered	P4
FRANKLIN BOG	Henderson	B	B3	PRV	Acquisition, registry	Part Registered	P2
FROGSBORO UPLAND DEPRESSION FOREST	Caswell	A	B2	NCWRC	Dedication	Unprotected	P3
GAR CREEK SCHWEINITZ'S SUNFLOWER SITE	Mecklenbur	A	B1	PRV/TNC	Management agreement, conservation easement	Management agreement with TNC, proposed for registry	P4
GIBBS POINT	Currituck	B	B3	PRV	Registry	Unprotected	P3
GIBBS WOODS	Currituck	B	B3	PRV	Registry	Unprotected	P3
GOLD HILL FLATS	Rowan	B	B2	PRV	Registry	Unprotected	P1
GOLD MINE BRANCH LONGLEAF PINE SLOPE	Montgomery	B	B3	USFS	Registry	Registered	P4
GOOSE CREEK GAME LAND	Pamlico Beaufort	B	B3	NCWRC	Registry	No formal protection status	P3
GOOSE POND CAROLINA BAY	Robeson	A	B1	TNC PRV	Continued acquisition	Part Registered Nature Conservancy Preserve	P1
GOSHEN GABBRO FOREST	Granville	A	B2	PRV	Acquisition, dedication, or registry	Unprotected	P1

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
GRANDFATHER MOUNTAIN	Avery Caldwell Watauga	A	B1	PRV NPS PRV	Dedication	Part registered	P1
GREAT DISMAL SWAMP WILDLIFE REFUGE	Camden Gates Pasquotank	A	B2	FWS	Registry	Registered	P4
GREAT LAKE SWAMP FOREST	Craven	B	B2	USFS	Registry, Research Natural Area, or Wilderness Area designation	Part Registered	P4
GREAT MARSH	Currituck	B	B3	PRV FWS	Registry	Part Registered	P3
GREAT SMOKY MOUNTAINS NATIONAL PARK	Swain Haywood	A	B1	NPS	Wilderness designation	Registered; Proposed Wilderness International Biosphere Reserve	P4
GREEN POND BAY	Scotland	B	B2	PRV	Registry	Unprotected	P3
GREEN SWAMP PRESERVE	Brunswick	A	B1	TNC	Dedication	Registered	P5
GULL ROCK GAME LAND NATURAL AREA	Hyde	B	B3	WRC	Dedication	Proposed for preserve dedication	P4
HAMBY'S (COWLICK) BAY	Hoke	B	B2	PRV	Registry	Unprotected	P3
HAMMOCKS BEACH STATE PARK	Onslow	A	B2	NCSP	Dedication	Registered	P4
HANGING ROCK MOUNTAIN	Watauga Avery	A	B1	PRV	Complete protection through acquisition or more easements	Part registered and under conservation easement to TNC	P1
HANGING ROCK STATE PARK	Stokes	A	B1	PRV NCSP	Dedication	Registered	P4
HATTERAS SAND FLATS	Dare	B	B3	NPS	Registered	Registered	P4
HENRY WRIGHT PRESERVE	Macon	A	B2	PRV TNC	Acquisition or dedication of private portion	Part Dedicated Nature Conservancy Preserve, rest unprotected	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
HENSON'S CREEK RAVINE	Rutherford	A	B2	PRV	Registry	Registered	P4
HIBBS ROAD PINE RIDGES	Carteret	A	B2	USFS	Registry	Unprotected	P3
HIGH SWAN-BULL MOUNTAIN	Buncombe	B	B2	NPS USFS	Registry	NPS portion is registered	P3
HIGHTOWER ROCK	Anson	B	B2	PRV	Acquisition (Goodhill Project)	Unprotected	P2
HILLS FERRY	Halifax	B	B3	PRV	Registry or conservation easement	Unprotected	P3
HOPE MILLS- LITTLE ROCKFISH CREEK	Cumberland	B	B3	PRV	Acquisition or conservation easement	Unprotected, threatened	P2
HORSEPASTURE RIVER GORGE	Transylvan	A	B1	USFS PRV	Registry, acquisition of private portions	Part registered, national and state Wild & Scenic River	P3
HORSESHOE LAKE (SUGGS MILLPOND) AND MARSHY BAY	Bladen	A	B2	PRV	Easement or acquisition	Unprotected	P3
HUGGINS (RUSSELLS) ISLAND	Onslow	B	B2	PRV	Registry or acquisition	Unprotected	P3
HUTAFF'S BEACH	Pender	B	B2	PRV	Registry	Unprotected	P3
INDIANTOWN CREEK-NORTH RIVER CYPRESS FOREST	Currituck	B	B2	PRV	Registry or Dedication	Unprotected	P3
ISLAND CREEK	Jones	A	B1	USFS PRV	Acquisition of private portion, registry, Research Natural	Forest Service part registered, private part unprotected	P2
JOCKEY'S RIDGE STATE PARK	Dare	A	B4	NCSP	Dedication	Registered	P4
JOE-LITTLE JOE MOUNTAINS	Alexander	A	B1	TNC PRV	Complete acquisition, dedication	Part Nature Conservancy Preserve	P4
JOHNSON MILL POND NATURAL AREA	Bladen	B	B3	NCSF	Dedication	Registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
JOHNSON'S MILL POND BOG	Moore	A	B2	PRV DOD	Registry	Unprotected	P3
JONES LAKE STATE PARK	Bladen	A	B2	NCSP	Dedication	Registered	P4
JORDAN LAKE BALD EAGLE HABITAT	Chatham	A	B2	NCSU COE/WRC	Registry	Unprotected; eagles protected by law, but site not	P3
JOYCE KILMER WILDERNESS AREA	Graham	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area; Registered	P5
JULIAN PRICE PARK WETLANDS NATURAL AREA	Watauga	A	B2	NPS	Registry	Registered	P4
JUNIPER SPRINGS CHURCH NATURAL AREA	Lee	A	B2	PRV	Registry or acquisition	Part Registered	P3
KELSEY NATURAL AREA	Macon	A	B2	PRV USFS	Registry, Research Natural Area designation	Registered	P4
KING CREEK BOG	Henderson	A	B1	PRV	Acquisition and dedication	Unprotected	P3
KITTY HAWK WOODS	Dare	A	B1	PRV	Acquisition and dedication	Unprotected	P1
KNAP OF REEDS CREEK DIABASE - CLEARINGS AND LEVEE	Granville	A	B2	COE/WRC	Registry	Registered	P4
KNAP OF REEDS CREEK DIABASE - FOREST AND GLADES	Granville	B	B2	NCHR	Registry	No formal protection status	P3
LAKE ELLIS SIMON	Craven	A	B2	PRV	Registry, conservation easement	Registered	P4
LAKE MATTAMUSKEET NATURAL AREAS	Hyde	A	B2	FWS	Registry, Research Natural Area designation	Registered	P4
LAKE PHELPS STATE LAKE	Washington Tyrrell	A	B1	NCSP	Dedication; Outstanding Resource Water designation	Registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
LAKE WACCAMAW STATE LAKE	Columbus	A	B1	NCSP	Dedication; Outstanding Resource Water designation	Registered	P4
LANIER QUARRY SAVANNA	Pender	A	B1	TNC PRV	Acquisition of private portions, dedication	Part Nature Conservancy Preserve	P1
LARKSPUR RIDGE	Halifax	B	B3	PRV	Registry, acquisition	Registered	P3
LEA ISLAND	Pender	B	B3	PRV	Registry	Unprotected	P3
LEJEUNE LONGLEAF RIDGE	Onslow	A	B3	DOD	Registry	Registered	P4
LEMON SPRINGS LONGLEAF STAND	Lee	B	B3	PRV	Registry	Unprotected	P3
LINK (SLOAN) BOG	Iredell	A	B1	PRV	Acquisition	Unprotected	P2
LINVILLE CAVERNS	Mcdowell	A	B1	PRV	Conservation easement or dedication	Registered	P4
LINVILLE FALLS	Burke	B	B3	NPS	Registry	Registered	P4
LINVILLE GORGE	Burke	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area, registered	P4
LINVILLE MOUNTAIN NATURAL AREA	Mcdowell	B	B2	USFS	Registry	Proposed for registry	P3
LITTLE FLATTY CREEK FORESTS AND MARSH	Pasquotank	B	B2	PRV	Registry or acquisition	Unprotected	P2
LITTLE PETERS CREEK BLUFFS	Stokes	A	B1	PRV	Registry or management agreement	Unprotected	P4
LITTLE RIVER (WAKE/JOHNSTON/ WAYNE) AQUATIC HABITAT	Wake Johnston Wayne	A	B1	PW	Outstanding Resource Water or High Quality Water	Unprotected	P1
LITTLE RIVER-DUPONT NATURAL AREAS	Transylvan	A	B2	PRV	Registry or acquisition	Registered	P2
LITTLE TENNESSEE RIVER AQUATIC HABITAT	Macon Swain	A	B1	PW	Outstanding Resource Water designation	Designated Critical Habitat, no formal protection status for river	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
LONG HOPE VALLEY	Watauga Ashe	A	B1	PRV	Conservation easement or dedication	No formal protection status; Designated National Natural Landmark	P3
LOOKING GLASS ROCK	Transylvan	A	B2	USFS	Registry	Registered	P4
LOVERS LEAP--STACKHOUSE SLOPES	Madison	B	B2	PRV USFS	Registry by Forest Service, acquisition of private portion	Unprotected	P3
LOWER CAPE FEAR RIVER BIRD NESTING ISLANDS	Brunswick New Hanove	B	B3	NCADM	Registry	Part Registered	P5
LOWER FRENCH BROAD RIVER AQUATIC HABITAT	Madison	B	B2	PW	High quality water designation	Unprotected	P3
LYMAN ROAD CYPRESS SAVANNA	Onslow	A	B1	DOD	Registry, Research Natural designation	Unprotected	P3
MAMIE MARSHES AND PONDS	Currituck	B	B3	PRV	Registry or Dedication	Unprotected	P3
MANCHESTER SANDHILLS	Cumberland	B	B3	PRV	Registry	Unprotected	P3
MARK PINE BAY COOLEY'S MEADOWRUE SITE	Columbus	B	B1	PRV	Registry or management agreement	Unprotected	P3
MCFARLAND TRACT	Hoke	B	B3	PRV	Registry	Unprotected	P3
MCCAIN NATURAL AREAS	Hoke	A	B2	NCDA	Dedication	No formal protection status	P2
MCINTOSH BAYS (TUNSTALL'S, BIG CYPRESS, RABBIT RUN)	Scotland	A	B1	PRV TNC	Acquisition of private portions, dedication	Registered Nature Conservancy Preserve	P1
MENZIE'S POND	Perquimans	B	B2	PRV	Registry or acquisition	Unprotected	P2
MERCHANTS MILLPOND STATE PARK	Gates	B	B2	NCSP PRV	Dedication	Registered	P3
MERRITT HARDWOOD FLATS	Pamlico	B	B3	PRV	Registry	Unprotected	P2

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
MILITARY OCEAN TERMINAL SUNNY POINT	Brunswick	A	B1	DOD	Registry, Research Natural Area designation	Unprotected	P3
MILL BRANCH SAND RIDGE	Robeson	B	B3	PRV	Registry	Unprotected	P3
MILL POND BAY NATURAL AREA	Bladen Cumberland	A	B2	PRV PRV	Registry	Registered	P3
MILLIS ROAD LONGLEAF PINE SAVANNA AND POCOSIN	Carteret	A	B2	USFS	Registry, Research Natural Area designation	Registered	P4
MILLSTONE CREEK	Richmond	B	B3	WRC	Registry	Registered	P4
MINERAL SPRINGS BARRENS	Union	A	B1	PRV	Registry or acquisition	Unprotected	P1
MITCHELL'S MILLPOND STATE NATURAL AREA	Wake	A	B2	NCSP PRV	Dedication; Acquisition of private portions	Most of the state-owned portion is registered	P4
MORGANTON WATERSHED	Burke	B	B2	LOCAL	Acquisition or registry	Unprotected	P2
MOSS NECK SAVANNA	Robeson	A	B2	PRV	Registry	Unprotected	P2
MOTSU BUFFER ZONE	New Hanove	B	B3	DOD	Registry	Unprotected; Former lease to NC Parks & Recreation not renewed	P2
MOUNT JEFFERSON STATE PARK	Ashe	B	B2	PRV NCSP	Dedication	Registered, National Natural Landmark	P4
MOUNT MITCHELL STATE PARK	Yancey	A	B1	PRV NCSP	Dedication	Registered, National Natural Landmark	P3
MUD CREEK BUNCHED ARROWHEAD SITE	Henderson	B	B2	PRV	Registry or management agreement	Unprotected, threatened	P1
MYRTLE HEAD SAVANNA	Brunswick	A	B1	TNC	Dedication	Nature Conservancy Preserve	P4
NAGS HEAD WOODS	Dare	A	B1	PRV LOCAL TNC	Acquisition of private portions, dedication	TNC part dedicated, town part registered	P2

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
NAKED CREEK AQUATIC HABITAT	Richmond Montgomery	B	B2	PW PW	Outstanding Resource Water designation	Designated Outstanding Resource Water	P3
NAKED CREEK WHITE CEDAR STAND	Richmond	B	B2	WRC	Registry	Registered	P4
NANTAHALA GORGE--BLOWING SPRING	Swain	A	B1	USFS	Registry	Registered	P4
NANTAHALA RIVER BOGS	Macon	A	B1	USFS	Registry and Research Natural Area designation	Registered	P4
NEILLS CREEK AQUATIC HABITAT	Harnett	A	B2	PW	High Quality Water designation	Unprotected	P2
NELLIE BELL POND, MARSH, AND CEDAR SWAMP	Currituck	A	B3	PRV	Registry	Unprotected	P3
NET HOLE-BUCK LANDING SWAMP	Robeson Columbus	B	B3	PRV	Acquisition and registry	Unprotected	P3
NEW HOPE CREEK BOTTOMLAND FOREST	Durham	B	B2	COE/WRC	Registry	Part Registered	P4
NEW RIVER LIMESTONE RAVINE	Onslow	B	B2	PRV	Registry	Unprotected	P3
NOLICHUCKY RIVER GORGE	Mitchell Yancey	A	B1	USFS	Registry, research natural area designation, Wild & Scenic designation for river	Unprotected; being studied for national Wild & Scenic River designation	P3
NORRIS CREEK MICHAUX'S SUMAC SITE	Franklin	A	B1	PRV	Registry or management agreement	Unprotected	P3
NORTH CAROLINA BOTANICAL GARDEN NATURAL AREAS	Orange	B	B2	UNC	Registry or dedication	No formal protections status	P2
NORTH FORK WATERSHED	Buncombe	A	B2	LOCAL NPS	Registry	Small NPS part is registered; Registry proposal on rest was refused	P3
NORTH RIVER/DEEP CREEK MARSHES AND FOREST	Currituck	B	B3	PRV	Registry, conservation easement	Part Registered	P3
NORTHWEST RIVER MARSH GAME LAND	Currituck	A	B3	NCWRC	Registry	Unprotected	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
OAK SAVANNA BAY	Robeson	A	B2	TNC PRV	Acquisiton of private portions, dedication	Part Nature Conservancy Preserve	P1
OCCONEECHEE MOUNTAIN	Orange	B	B2	LOCAL PRV	Registry or acquisition	Unprotected	P1
OCCONEECHEE NECK FLOODPLAIN FOREST	Northampt	B	B3	PRV	Registry	Unprotected	P2
OCHLAWAHA BOG	Henderson	A	B1	TNC PRV	Continued acquisition by TNC, dedication when complete	TNC part registered, TNC working on remainder	P3
OCRACOKE INLET BIRD NESTING ISLANDS	Carteret Hyde	B	B3	AUD	Registry or dedication	Registered, Audubon Sanctuary	P4
OCRACOKE ISLAND--WESTERN END (SAND FLATS)	Hyde	B	B2	NPS	Registry	Registered	P4
OREGON INLET-ROANOKE SOUND BIRD NESTING ISLANDS	Dare	B	B3	NC PRV	Registry	Two state-owned islands registered; private islands unprotected	P4
ORTON CREEK SAVANNA	Brunswick	B	B2	PRV	Registry or acquisition	Unprotected	P2
ORTON POND	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
OVERHILLS ESTATE	Hoke Cumberland Harnett	A	B1	PRV	Conservation easement	No formal protection status	P3
OVERTON ROCK	Franklin	B	B2	PRV	Registry, acquisition by conservation organization	Registered	P4
PAINT HILL	Moore	A	B1	PRV	Acquisition or easement	Small part registered, part under conservation easement	P1
PAINT ROCK ROAD AREA	Madison	B	B2	USFS	Registry	Registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
PALESTINE SCHWEINITZ'S SUNFLOWER SITE	Stanly	A	B1	PRV	Registry	Unprotected	P3
PANTHERTOWN VALLEY	Jackson	A	B1	USFS	Registry, Research Natural Area or Scenic Area designation	No formal protection status	P4
PATSY POND COMPLEX	Carteret	A	B2	PRV USFS	Registry, Research Natural Area designation	Registered	P2
PEA ISLAND NATIONAL WILDLIFE REFUGE	Dare	A	B3	FWS	Registry	Part Registered	P4
PEE DEE NATIONAL WILDLIFE REFUGE	Anson	A	B2	PRV FWS	Research Natural Area designation	Registered	P3
PEE DEE RIVER GABBRO SLOPES	Richmond	B	B2	PRV	Registry	Part Registered	P1
PERQUIMANS RIVER CHERRYBARK OAK FLATS	Perquimans	B	B2	PRV	Registry or acquisition	Unprotected	P1
PHILLIPS AND ANNEX ISLANDS NESTING COLONY	Carteret	B	B3	PRV	Acquisition	Unprotected	P3
PHOENIX MOUNTAIN	Ashe	B	B1	PRV	Conservation easement or acquisition	Unprotected	P3
PICTURE CREEK DIABASE BARRENS	Granville	A	B1	NCDA	Dedication	Unprotected	P1
PIGEON RIVER GORGE	Haywood	B	B2	USFS PRV	Registry, possible acquisition of private lands by USFS	Unprotected	P3
PILOT MOUNTAIN STATE PARK: PILOT MOUNTAIN SECTION	Surry	B	B2	NCSP	Dedication	Registered, National Natural Landmark	P4
PINEOLA BOG	Avery	A	B1	PRV	Conservation easement	Part Registered	P2
PINEY ISLAND	Carteret	A	B2	DOD	Registry	Unprotected	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
PINEY POOLS NORTH OF LITTLE MUDDY CREEK	Scotland	B	B2	WRC	Registry	Unprotected	P3
PLEASANT GROVE BOG	Montgomery	B	B2	USFS	Registry	Registered	P4
PLEASANT GROVE CHURCH TRIPLE PINE SAVANNA	Montgomery	B	B3	USFS	Registry	Unprotected	P3
PLUM THICKET SUMAC SITE	Hoke	A	B2	PRV	Registry	Unprotected	P2
POTATO HILL BOG	Watauga	B	B1	PRV	Registry or acquisition	Unprotected	P2
POTATO HILL-RICH MOUNTAIN BALD	Watauga	B	B1	PRV	Acquisition or Registry	Unprotected	P2
PRETTY POND CAROLINA BAY	Robeson	A	B2	TNC PRV	Acquisition of private portions, dedication	Part Registered Nature Conservancy Preserve	P1
PRINGLE ROAD POCOSIN AND SAND RIDGES	Carteret	A	B1	USFS	Registry, Research Natural Area designation	Unprotected	P3
RACHEL CARSON NATIONAL ESTUARINE RESERVE	Carteret	B	B3	NCCM	Dedication	Dedicated, National Estuarine Reserve	P5
RAVENEL'S WOODS REMNANTS	Macon	A	B1	PRV	Registry or acquisition	Unprotected	P2
REDBANK COVE	Haywood	B	B3	NPS PRV	Registry, acquisition of private portions by NPS	NPS part registered, private portion unprotected	P1
REEDY BRANCH	Jones Craven	A	B2	PRV	Registry	Unprotected	P3
REEVES AREA FLOODPLAIN	Columbus Brunswick	B	B3	PRV	Registry	Unprotected	P3
ROAN MOUNTAIN MASSIF	Avery Mitchell	A	B1	USFS SAHC PRV	Complete acquisition, registry & preserve dedication	National Natural Landmark; SAHC and USFS portions registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ROANOKE BIG OAK WOODS	Halifax	B	B3	PRV	Registry	Registered	P4
ROANOKE ISLAND JUNCUS MARSH	Dare	B	B3	PRV/TNC	Registry, conservation easement	Conservation easement held by TNC	P3
ROANOKE RIVER DELTA ISLANDS	Bertie	B	B3	NCWRC PRV	Acquisition of additional lands, transfer to FWS, Research Natural Area designation	Part in National Wildlife Refuge	P3
ROANOKE RIVER/NC 11 ALLUVIAL FLATS	Martin Bertie	B	B3	PRV	Registry, easement or acquisition	Unprotected	P2
ROBERDO BOG	Montgomery	A	B2	USFS	Registry	Registered	P4
ROCK HOUSE CAVE NATURAL AREA	Onslow	B	B3	PRV	Registry or acquisition	Unprotected	P2
ROCKY FACE MOUNTAIN	Alexander	B	B2	FEL PRV	Dedication of protected portion; additional registry or acquisition	Part registered	P3
ROCKY POINT MARL FOREST	Pender	A	B1	PRV	Acquisition or dedication	Unprotected	P2
ROCKY RIVER-DEEP RIVER AQUATIC HABITAT	Chatham Lee	A	B1	PW	Outstanding Resource Water or High Quality Water designation	Unprotected	P1
ROCKY RIVER-MORGAN'S BLUFF	Stanly	B	B2	UNCC	Registry	Registered	P4
SALLY SIMMONS LIMESTONE LEDGE	Jones	B	B2	PRV	Registry	Unprotected	P3
SANDY BOTTOM	Buncombe	B	B3	PRV	Acquisition or registry with new owner	Formerly registered, but land for sale	P3
SANDY RUN SAVANNA	Pender	A	B1	PRV	Registry, acquisition	Unprotected	P2
SANDY RUN SWAMP RARE PLANT SITE	Onslow	A	B2	PRV	Registry or acquisition	Unprotected	P2
SATULAH MOUNTAIN	Macon	B	B3	PRV	Registry	Part registered, rest unprotected	P3
SCHULKENS SAVANNAS	Columbus	A	B2	PRV	Registry, acquisition	Unprotected	P1

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
SCOTLAND LANE ANNUAL BURN AREA	Scotland	B	B3	WRC	Registry	Registered	P4
SCRANTON HARDWOOD FOREST	Hyde	A	B2	PRV	Registry or management agreement	No formal protection status	P3
SCUPPERNONG RIVER SWAMP FOREST	Tyrrell	B	B2	TNC FWS PRV	Registry, Research Natural Area designation, acquisition of privately owned parts	One tract owned by TNC, several tracts owned by US Fish & Wildlife Service, rest unprotected	P2
SEABOARD LONGLEAF SITE	Lee	B	B3	PRV	Registry	Unprotected	P2
SHACKLEFORD BANKS	Carteret	A	B2	NPS PRV	Registry, Wilderness designation	Registered	P4
SHEEP CLIFF RIDGE	Jackson	B	B2	PRV/TNC	Registry and conservation easement	Registered, Conservation easement held by TNC	P4
SHELL LANDING	Craven	B	B3	PRV	Registered	Registered	P4
SICELOFF BOG	Iredell	A	B2	PRV	Acquisition by TNC	Unprotected	P2
SOUTH BUTNER CEDAR GLADES	Granville	A	B1	NCHR	Registry	Registered	P4
SOUTH BUTNER DIABASE SWAMP	Granville	B	B3	NCHR	Registry	Proposed for registry	P2
SOUTH RIVER AQUATIC HABITAT	Bladen Sampson	B	B1	PW	Outstanding Resource Water designation	Unprotected	P2
SOUTHERN SHORES CYPRESS SWAMP	Dare	A	B2	PRV	Registry or dedication	Registered	P4
SOUTHPORT FERRY LANDING FOREST	Brunswick	B	B3	PRV	Registry	Unprotected	P2
SOUTHWEST RIDGE SAVANNA	Pender	B	B3	TNC WRC	Registry	Nature Conservancy Preserve	P3
SPARTA BOG	Alleghany	A	B2	PRV	Registry	Unprotected	P2
SPRING CREEK PONDS	Brunswick	B	B3	PRV	Registry	Unprotected	P2

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
STANDING INDIAN MOUNTAIN	Clay Macon	B	B2	USFS	Registry, Wilderness designation designation	Southern Nantahala National Wilderness Area, Registered	P4
STARRETTS MEADOW	Onslow	A	B2	DOD	Registry or Research Natural Area	Unprotected	P3
STATE-LINE PRAIRIE BAY	Scotland	B	B2	TNC PRV	Acquisition of privately owned parts; dedication	Part Nature Conservancy Preserve	P1
STEESTACHEE & WESNER BALDS BOULDER FIELDS	Haywood	A	B2	NPS PRV	Registry, acquisition of private portions	NPS part registered	P4
STILL LANE SEEPAGE SLOPES	Scotland	A	B2	WRC	Registry	Registered	P4
STONE MOUNTAIN STATE PARK	Wilkes Alleghany	A	B2	NCSP PRV	Dedication of natural areas	Registered National Natural Landmark	P3
SUGAR MOUNTAIN NATURAL AREA	Avery	A	B1	PRV	Acquisition by TNC	Unprotected	P3
SWANQUARTER NATIONAL WILDLIFE REFUGE	Hyde	B	B2	FWS	Registry	Part Registered, National Wilderness Area	P4
SWIFT CREEK AQUATIC HABITAT	Nash Edgecombe Franklin	A	B1	PW	Outstanding Resource Water designation	Unprotected	P1
TAR RIVER (FRANKLIN/NASH/ EDGECOMBE) AQUATIC HAB.	Edgecombe Nash Franklin	A	B2	PW	Outstanding Resource Water designation	Unprotected	P1
TAR RIVER (GRANVILLE) AQUATIC HABITAT	Granville	A	B1	PW	High Quality Water or Outstanding Resource Water designation	Unprotected	P1
TATUM MILL POND-CYPRESS BAY	Bladen	A	B3	NCSF	Dedication	Registered	P4
TEMPLE ROANOKE RIVER FOREST	Halifax	B	B3	PRV	Registry	No formal protection status	P3
THE CRAGGIES	Buncombe	A	B1	USFS NPS LOCAL	Registry	Registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
THE PINK BEDS	Transylvan	A	B1	USFS	Registry and Research Natural Area designation	Registered	P3
THEODORE ROOSEVELT STATE NATURAL AREA	Carteret	A	B2	LOCAL NCSP PRV	Dedication	Registered, Outstanding Resource Waters	P1
THOMPSON RIVER GORGE	Transylvan	A	B1	PRV	Registry or acquisition	Unprotected	P3
THREE TOP MOUNTAIN	Ashe	A	B1	PRV	Registry	Unprotected	P2
TOXAWAY RIVER GORGE	Transylvan	A	B1	PRV	Registry or acquisition	Small areas registered, rest unprotected	P3
TROUBLESOME POINT OAK FLATS AND MARSH	Currituck	B	B3	PRV	Registry	Unprotected	P3
TURKEY CREEK LEAST TRILLIUM SITE	Nash	A	B1	TNC	Dedication	Nature Conservancy Preserve	P4
UPPER WACCAMAW RIVER SWAMP	Columbus	A	B1	NCSP PRV	Registry or acquisition	Small part registered, rest unprotected	P3
US 264 LOW POCOSIN (FLOATING PEAT BOG)	Dare	A	B2	DOD FWS	Registry, Research Natural Area designation	DOD part registered, majority unprotected	P4
VENTOSA PLANTATION	Halifax	B	B3	PRV	Registry, acqusition	Registered	P3
VONCANON LONGLEAF STAND	Moore	B	B3	PRV	Registry	Unprotected	P3
WACCAMAW ISLAND SAVANNA	Brunswick	B	B2	PRV	Conservation acquisition and dedication	Unprotected	P2
WACCAMAW RIVER AQUATIC HABITAT	Columbus Brunswick	A	B1	PW	High Quality Water designation	Unprotected	P3
WALKER COVE	Buncombe	B	B2	USFS	Registry	Part Registered, Society of American Foresters Natural Area	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
WALNUT CREEK SUMAC SITE	Wake	A	B1	DOT LOCAL	Registry/management agreement	Management agreement, but threatened by proposed highway widening	P3
WALTHOUR MOSS LONGLEAF PINE FOREST	Moore	A	B3	PRV	Registry or conservation easement	No formal protection status	P4
WARD'S LAKE	Columbus	A	B2	PRV	Acquisition by TNC	Unprotected	P3
WATERROCK KNOB	Jackson Haywood	B	B1	NPS	Registry	Registered	P4
WAXHAW SUNFLOWER SITE	Union	A	B1	NCDOT PRV	Management agreement with DOT	Management agreement with DOT	P4
WEYMOUTH WOODS STATE NATURAL AREA	Moore	B	B2	NCSP	Dedication	Registered	P4
WHITE OAK MOUNTAIN-TRYON PEAK	Polk	A	B1	PRV	Registry	Unprotected	P2
WHITE OAK PONDBERRY SITE	Bladen	B	B3	PRV	Management agreement	No formal protection; formerly registered	P1
WHITE PINES NATURAL AREA	Chatham Lee	B	B3	TLC PRV PRV	Further acquisition, easements	Part Registered	P3
WHITESIDE MOUNTAIN-DEVILS COURTHOUSE	Jackson	A.	B1	USFS	Registry	Registered	P4
WHITEWATER RIVER FALLS AND GORGE	Jackson Transylvan	A	B1	PRV USFS	Registry, acquisition of private portions	National Forest portion Registered Natural Area and Special Interest Area	P3
WOODS MOUNTAIN-SINGECAT RIDGE	Mcdowell	A	B1	USFS	Registry	No formal protection status	P4
WORLDS EDGE/SUGARLOAF MOUNTAIN	Rutherford Henderson Polk	B	B1	PRV	Registry	No formal protection status	P3
ZEKE'S ISLAND	New Hanov	B	B3	NCCM	Dedication	Dedicated	P5

HIGH PRIORITY SITES OCCURRING IN MACROSITES OR MEGASITES

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ALLIGATOR RIVER WETLANDS MEGASITE	Dare Hyde Tyrrell	A	B2				
Alligator River Swamp Forest	Dare Hyde	A	B2	DOD FWS PRV	Research Natural Area designation, registry	Small DOD portion is Registered Natural Area; most is National Wildlife Refuge	P3
Alligator River-Swan Lake Swamp Forest	Hyde	A	B2	FWS PRV	Research Natural Area designation, registry; acquire outstanding white cedar timber rights	Most is National Wildlife Refuge	P3
Faircloth Road Pond Pine Pocosin	Dare	A	B2	DOD	Registry and Research Natural Area designation	Registered	P2
US 264 Low Pocosin (Floating Peat Bog)	Dare	A	B2	DOD FWS	Registry, Research Natural Area designation	DOD part registered, majority unprotected	P4
BLACK MOUNTAIN-CRAGGY MOUNTAIN COMPLEX MEGASITE	Buncombe Yancey	A	B1				
Black Mountain-Celo Knob Natural Area	Yancey	A	B1	USFS	Registry, Special Interest Area, Research Natural Area designation	Registered	P4
Mount Mitchell State Park	Yancey	A	B1	PRV NCSP	Dedication	Registered, National Natural Landmark	P3
North Fork Watershed	Buncombe	A	B2	LOCAL NPS	Registry	Small NPS part is registered; Registry proposal on rest was refused	P3
The Craggies	Buncombe	A	B1	USFS NPS LOCAL	Registry	Registered	P4
Brush Fence Ridge-Point Misery	Buncombe	B	B1	USFS	Registry	Unprotected	P3

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Cane River Upper Watershed	Yancey	B	B3	PRV	Registry, conservation easement	Unprotected	P4
High Swan-Bull Mountain	Buncombe	B	B2	NPS USFS	Registry	NPS portion is registered	P3
Walker Cove	Buncombe	B	B2	USFS	Registry	Part Registered, Society of American Foresters Natural Area	P3
BLADEN LAKES NATURAL AREAS MEGASITE	Bladen Cumberland	A	B1				
HORSESHOE LAKE (SUGGS MILLPOND) AND MARSHY BAY	Bladen	A	B2	PRV	Easement or acquisition	Unprotected	P3
Bushy Lake State Natural Area	Cumberland	A	B1	NCSP PRV	Complete acquisition, dedication	Part of the Natural Area is Registered	P3
Charlie Long Mill Pond-Big Colly Bay	Bladen	A	B3	NCSF	Dedication	Registered	P4
Jones Lake State Park	Bladen	A	B2	NCSP	Dedication	Registered	P4
Mill Pond Bay Natural Area	Bladen Cumberland	A	B2	PRV PRV	Registry	Registered	P3
Tatum Mill Pond-Cypress Bay	Bladen	A	B3	NCSF	Dedication	Registered	P4
Johnson Mill Pond Natural Area	Bladen	B	B3	NCSF	Dedication	Registered	P4
White Oak Pondberry Site	Bladen	B	B3	PRV	Management agreement	No formal protection; formerly registered	P1

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
CROATAN NATIONAL FOREST MEGASITE	Carteret Craven Jones	A	B1				
CROATAN POCOSINS	Craven Carteret Jones	A	B2	USFS PRV	Registry, Research Natural Area, Wilderness designation	Registered, Part Wilderness Area and Research Natural Area	P4
Hibbs Road Pine Ridges	Carteret	A	B2	USFS	Registry	Unprotected	P3
Island Creek	Jones	A	B1	USFS PRV	Acquisition of private portion, registry, Research Natural	Forest Service part registered, private part unprotected	P2
Lake Ellis Simon	Craven	A	B2	PRV	Registry, conservation easement	Registered	P4
Millis Road Longleaf Pine Savanna and Pocosin	Carteret	A	B2	USFS	Registry, Research Natural Area designation	Registered	P4
Patsy Pond Complex	Carteret	A	B2	PRV USFS	Registry, Research Natural Area designation	Registered	P2
Pringle Road Pocosin and Sand Ridges	Carteret	A	B1	USFS	Registry, Research Natural Area designation	Unprotected	P3
Great Lake Swamp Forest	Craven	B	B2	USFS	Registry, Research Natural Area, or Wilderness Area designation	Part Registered	P4
CURRITUCK MAINLAND WETLANDS MEGASITE	Currituck Camden	A	B1				
BUCKSKIN CREEK-GREAT SWAMP	Currituck	B	B2	PRV	Registry	Unprotected	P2
NORTH RIVER WETLANDS MACROSITE	Currituck	A	B1				
Broad Creek Marshes	Camden	B	B3	PRV	Registry	Unprotected	P3
Indiantown Creek-North River Cypress Forest	Currituck	B	B2	PRV	Registry or Dedication	Unprotected	P3

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
North River/Deep Creek Marshes and Forest	Currituck	B	B3	PRV	Registry, conservation easement	Part Registered	P3
NORTHWEST RIVER-NORTH LANDING RIVER WETLANDS MACROSITE	Currituck	B	B3				
Gibbs Point	Currituck	B	B3	PRV	Registry	Unprotected	P3
Gibbs Woods	Currituck	B	B3	PRV	Registry	Unprotected	P3
Nellie Bell Pond, Marsh, and Cedar Swamp	Currituck	A	B3	PRV	Registry	Unprotected	P3
Northwest River Marsh Game Land	Currituck	A	B3	NCWRC	Registry	Unprotected	P3
Troublesome Point Oak Flats and Marsh	Currituck	B	B3	PRV	Registry	Unprotected	P3
Mamie Marshes and Ponds	Currituck	B	B3	PRV	Registry or Dedication	Unprotected	P3
ESCARPMENT GORGES MEGASITE	Macon Jackson Transylva	A	B1				
Blackrock Mountain-Granite City	Macon Jackson	A	B1	USFS PRV	Registry and Research Natural Area designation, acquisition or registry of private portion	Forest Service portion proposed for registry; no current protection	P2
Ellicott Mountain Pogonia Site	Jackson	A	B2	PRV	Acquisition	Unprotected	P3
Horsepasture River Gorge	Transylvan	A	B1	USFS PRV	Registry, acquisition of private portions	Part registered, national and state Wild & Scenic River	P3
Thompson River Gorge	Transylvan	A	B1	PRV	Registry or acquisition	Unprotected	P3
Toxaway River Gorge	Transylvan	A	B1	PRV	Registry or acquisition	Small areas registered, rest unprotected	P3

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Whiteside Mountain-Devils Courthouse	Jackson	A	B1	USFS	Registry	Registered	P4
Whitewater River Falls and Gorge	Jackson Transylvan	A	B1	PRV USFS	Registry, acquisition of private portions	National Forest portion Registered Natural Area and Special Interest Area	P3
Chattooga River Gorge-Ellicott Rock	Jackson Macon	B	B1	PRV USFS	Registry, Wilderness designation	National Wild & Scenic River Corridor, portion in Ellicott Rock National Wilderness Area	P4
Dulany Bog	Jackson	B	B2	PRV HBF	Registry	Part Registered	P3
Satulah Mountain	Macon	B	B3	PRV	Registry	Part registered, rest unprotected	P3
FORT BRAGG MEGASITE	Cumberland Harnett Hoke Moore	A	B1				
Fort Bragg Coleman Impact Area	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
Fort Bragg Mac Ridge Impact Area	Cumberland Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
Fort Bragg McPherson Impact Area	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
Johnson's Mill Pond Bog	Moore	A	B2	PRV DOD	Registry	Unprotected	P3
GREAT SMOKY MOUNTAINS NATIONAL PARK	Swain Haywood	A	B1	NPS	Wilderness designation	Registered; Proposed Wilderness International Biosphere Reserve	P4

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ROAN MOUNTAIN HIGHLANDS MEGASITE	Avery Mitchell	A	B1				
Big Yellow Mountain	Avery	A	B1	TNC SAHC PRV	Dedication	TNC part is Dedicated, SAHC part is Registered	P3
Roan Mountain Massif	Avery Mitchell	A	B1	USFS SAHC PRV	Complete acquisition, registry & preserve dedication	National Natural Landmark; SAHC and USFS portions registered	P4
ROANOKE RIVER MEGASITE	Martin Bertie Halifax Northampt	A	B1				
Camassia Slopes	Northampt	A	B2	TNC NCDC	Dedication	Part dedicated Nature Conservancy Preserve, part registered	P4
Devil's Gut Slough	Martin	A	B2	PRV TNC	Complete acquisition, dedication	Part Dedicated Nature Conservancy Preserve	P2
Broad Creek Neck	Bertie	B	B3	PRV	Acquisition, registry	Unprotected	P2
Broadneck Ridge	Bertie	B	B2	NCWRC	Research Natural Area designation	National Wildlife Refuge	P4
Broadneck Swamp	Bertie	B	B2	FWS	Registry or dedication	Nature Conservancy Preserve	P4
Buzzard Point	Halifax	B	B3	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4
Clark Estate	Bertie	B	B2	PRV	Acquisition or registry	Unprotected	P3
Company Swamp	Bertie	B	B2	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Conaby Creek/Roanoke River Swamp	Washington	B	B2	PRV	Registry	Unprotected	P3
Conine Island	Bertie	B	B2	WRC	Transfer to FWS, research Natural Area designation	Status in transition	P4
Coniott Cherrybark Oak Ridge	Bertie	B	B2	PRV	Conservation easement, acquisition, or dedication	Unprotected	P2
Hills Ferry	Halifax	B	B3	PRV	Registry or conservation easement	Unprotected	P3
Larkspur Ridge	Halifax	B	B3	PRV	Registry, acquisition	Registered	P3
Occoneechee Neck Floodplain Forest	Northampt	B	B3	PRV	Registry	Unprotected	P2
Roanoke Big Oak Woods	Halifax	B	B3	PRV	Registry	Registered	P4
Roanoke River Delta Islands	Bertie	B	B3	NCWRC PRV	Acquisition of additional lands, transfer to FWS, Research Natural Area designation	Part in National Wildlife Refuge	P3
Roanoke River/NC 11 Alluvial Flats	Martin Bertie	B	B3	PRV	Registry, easement or acquisition	Unprotected	P2
Temple Roanoke River Forest	Halifax	B	B3	PRV	Registry	No formal protection status	P3
Ventose Plantation	Halifax	B	B3	PRV	Registry, acqusition	Registered	P3
SANDHILLS GAME LAND MEGASITE	Scotland Richmond Moore	A	B1				
Beaver Dam Creek-Little Muddy Creek	Scotland	A	B1	WRC	Registry	Registered	P3
Bog Hole	Scotland	A	B2	WRC	Registry	Registered	P4

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Bones Fork Pine and Shrub Community	Richmond	A	B2	WRC	Registry	Registered	P4
Crawford Lake	Scotland	A	B1	WRC	Registry	No formal protection status	P2
Still Lane Seepage Slopes	Scotland	A	B2	WRC	Registry	Registered	P4
Millstone Creek	Richmond	B	B3	WRC	Registry	Registered	P4
Naked Creek Aquatic Habitat	Richmond Montgomery	B	B2	PW PW	Outstanding Resource Water designation	Designated Outstanding Resource Water	P3
Naked Creek White Cedar Stand	Richmond	B	B2	WRC	Registry	Registered	P4
Piney Pools North of Little Muddy Creek	Scotland	B	B2	WRC	Registry	Unprotected	P3
Scotland Lane Annual Burn Area	Scotland	B	B3	WRC	Registry	Registered	P4
SOUTHEASTERN BRUNSWICK COUNTY MEGASITE	Brunswick	A	B1				
ORTON PLANTATION MACROSITE	Brunswick	A	B1	PRV	Registry or acquisition	Unprotected	P2
Orton Pond	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
Orton Creek Savanna	Brunswick	B	B2	PRV	Registry or acquisition	Unprotected	P2
Boiling Spring Lakes--Wetland Complex	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
Military Ocean Terminal Sunny Point	Brunswick	A	B1	DOD	Registry, Research Natural Area designation	Unprotected	P3
Boiling Spring Lakes--Limesink Complex	Brunswick	B	B2	PRV	Acquisition	Unprotected	P2
Southport Ferry Landing Forest	Brunswick	B	B3	PRV	Registry	Unprotected	P2

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
WACCAMAW RIVER WETLANDS MEGASITE	Brunswick Columbus	A	B1				
MIDDLE WACCAMAW RIVER MACROSITE	Brunswick Columbus	A	B2				
Reeves Area Floodplain	Columbus Brunswick	B	B3	PRV	Registry	Unprotected	P3
Waccamaw Island Savanna	Brunswick	B	B2	PRV	Conservation acquisition and dedication	Unprotected	P2
UPPER WACCAMAW RIVER SWAMP	Columbus	A	B1	NCSP PRV	Registry or acquisition	Small part registered, rest unprotected	P3
Lake Waccamaw State Lake	Columbus	A	B1	NCSP	Dedication; Outstanding Resource Water designation	Registered	P4
Waccamaw River Aquatic Habitat	Columbus Brunswick	A	B1	PW	High Quality Water designation	Unprotected	P3
Ward's Lake	Columbus	A	B2	PRV	Acquisition by TNC	Unprotected	P3

MACROSITES (with Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
BALD HEAD-SMITH ISLAND COMPLEX MACROSITE	Brunswick	A	B1				
Bald Head Island	Brunswick	A	B1	PRV	Conservation acquisition, dedication	Unprotected, ongoing development, National Natural Landmark	P2
Bald Head Island State Natural Area	Brunswick	B	B2	WRC NCSP	Dedication	Registered, National Natural Landmark	P4
Zeke's Island	New Hanov	B	B3	NCCM	Dedication	Dedicated	P5
BUTNER NATURAL AREAS MACROSITE	Granville	A	B1				
Knap of Reeds Creek Diabase - Clearings and Levee	Granville	A	B2	COE/WRC	Registry	Registered	P4
Picture Creek Diabase Barrens	Granville	A	B1	NCDA	Dedication	Unprotected	P1
South Butner Cedar Glades	Granville	A	B1	NCHR	Registry	Registered	P4
Knap of Reeds Creek Diabase - Forest and Glades	Granville	B	B2	NCHR	Registry	No formal protection status	P3
South Butner Diabase Swamp	Granville	B	B3	NCHR	Registry	Proposed for registry	P2
CAMP LEJEUNE MACROSITE	Onslow	A	B1				
Camp Lejeune Limesink Complex	Onslow	A	B2	DOD	Registry, Research Natural Area designation	Unprotected	P3
Lejeune Longleaf Ridge	Onslow	A	B3	DOD	Registry	Registered	P4
Lyman Road Cypress Savanna	Onslow	A	B1	DOD	Registry, Research Natural designation	Unprotected	P3
Starretts Meadow	Onslow	A	B2	DOD	Registry or Research Natural Area	Unprotected	P3
Camp Lejeune G-10 Impact Area	Onslow	B	B2	DOD	Registry, Research Natural Area	Unprotected	P3

MACROSITES (with Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
CAPE HATTERAS NATIONAL SEASHORE MACROSITE	Dare Hyde	A	B1				
Buxton Woods	Dare	A	B1	NPS NCCM PRV	Acquisition of private portions dedication of state portions, registry of NPS portions	NPS part is registered, NCCM part is a Coastal Reserve	P1
Cape Hatteras Point	Dare	A	B1	NPS	Registry	Registered	P4
Pea Island National Wildlife Refuge	Dare	A	B3	FWS	Registry	Part Registered	P4
Hatteras Sand Flats	Dare	B	B3	NPS	Registered	Registered	P4
Ocracoke Island--Western End (Sand Flats)	Hyde	B	B2	NPS	Registry	Registered	P4
CAPE LOOKOUT NATIONAL SEASHORE MACROSITE	Carteret	A	B1				
Core Banks and Portsmouth Island	Carteret	A	B2	NPS	Registry	Registered	P4
Shackleford Banks	Carteret	A	B2	NPS PRV	Registry, Wilderness designation	Registered	P4
DISMAL SWAMP MACROSITE	Camden Gates Pasquotank	A	B2				
Great Dismal Swamp Wildlife Refuge	Camden Gates Pasquotank	A	B2	FWS	Registry	Registered	P4
GREEN SWAMP PRESERVE	Brunswick	A	B1	TNC	Dedication	Registered	P5
HICKORYNUT GORGE MACROSITE	Rutherford Henderson	A	B1				

MACROSITES (with Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Bat Cave	Rutherford	A	B1	PRV/ TNC	Conservation easement, dedication, or acquisition	Leased to NC Nature Conservancy; Registered	P4
Chimney Rock Natural Area	Rutherford	A	B1	PRV	Conservation easement	Registered	P4
Worlds Edge/Sugarloaf Mountain	Rutherford Henderson Polk	B	B1	PRV	Registry	No formal protection status	P3
HOLLY SHELTER GAME LAND MACROSITE	Pender	A	B1				
Southwest Ridge Savanna	Pender	B	B3	TNC WRC	Registry	Nature Conservancy Preserve	P3
JOYCE KILMER WILDERNESS AREA	Graham	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area; Registered	P5
LINVILLE GORGE MACROSITE	Burke	A	B1				
Linville Gorge	Burke	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area, registered	P4
Linville Falls	Burke	B	B3	NPS	Registry	Registered	P4
STONE MOUNTAIN ESCARPMENT COMPLEX MACROSITE	Alleghany Wilkes	A	B2				
Stone Mountain State Park	Wilkes Alleghany	A	B2	NCSP PRV	Dedication of natural areas	Registered National Natural Landmark	P3
Doughton Park	Alleghany Wilkes	B	B2	NPS	Registry	Registered	P5
CURRITUCK OUTER BANKS MACROSITE	Currituck	B	B2				
Currituck Banks-Corolla Natural Area	Currituck	B	B3	FWS TNC NCCM	Dedication	Part dedicated and National Estuarine Reserve	P4

MACROSITES (with Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Currituck Banks-Swan Island Natural Area	Currituck	B	B3	FWS PRV	Registry	Partially National Wildlife Refuge	P3
Currituck Club Natural Area	Currituck	B	B3	PRV	Registry	Registered but may be sold	P1
HOT SPRINGS WINDOW MACROSITE	Madison	B	B2				
Lovers Leap--Stackhouse Slopes	Madison	B	B2	PRV USFS	Registry by Forest Service, acquisition of private portion	Unprotected	P3
Lower French Broad River Aquatic Habitat	Madison	B	B2	PW	High quality water designation	Unprotected	P3
Paint Rock Road Area	Madison	B	B2	USFS	Registry	Registered	P4
JORDAN LAKE NATURAL AREA MACROSITE	Chatham Durham	B	B2				
Jordan Lake Bald Eagle Habitat	Chatham	A	B2	NCSU COE/WRC	Registry	Unprotected; eagles protected by law, but site not	P3
New Hope Creek Bottomland Forest	Durham	B	B2	COE/WRC	Registry	Part Registered	P4
LUMBER RIVER MACROSITE	Columbus Robeson Scotland	B	B2				
Mill Branch Sand Ridge	Robeson	B	B3	PRV	Registry	Unprotected	P3
Net Hole-Buck Landing Swamp	Robeson Columbus	B	B3	PRV	Acquisition and registry	Unprotected	P3
PLOTT BALSAMS	Jackson Haywood	B	B3				
Waterrock Knob	Jackson Haywood	B	B1	NPS	Registry	Registered	P4

MACROSITES (with Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
SOUTH MOUNTAINS MACROSITE		B	B2				
Morganton Watershed	Burke	B	B2	LOCAL	Acquisition or registry	Unprotected	P2

HIGHEST PRIORITY SITES

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Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ALLIGATOR RIVER SWAMP FOREST	Dare Hyde	A	B2	DOD FWS PRV	Research Natural Area designation, registry	Small DOD portion is Registered Natural Area; most is National Wildlife Refuge	P3
ALLIGATOR RIVER-SWAN LAKE SWAMP FOREST	Hyde	A	B2	FWS PRV	Research Natural Area designation, registry; acquire outstanding white cedar timber rights	Most is National Wildlife Refuge	P3
ANTIOCH BAY	Hoke	A	B1	PRV TNC	Continued acquisition, dedication	Most is Nature Conservancy Preserve, Registered	P2
BALD HEAD ISLAND	Brunswick	A	B1	PRV	Conservation acquisition, dedication	Unprotected, ongoing development, National Natural Landmark	P2
BALD HEAD ISLAND STATE NATURAL AREA	Brunswick	B	B2	WRC NCSP	Dedication	Registered, National Natural Landmark	P4
BAT CAVE	Rutherford	A	B1	PRV/ TNC	Conservation easement, dedication, or acquisition	Leased to NC Nature Conservancy; Registered	P4
BAT FORK BOG	Henderson	A	B1	PRV	Acquisition and dedication	Unprotected	P1
BEAVER DAM CREEK-LITTLE MUDDY CREEK	Scotland	A	B1	WRC	Registry	Registered	P3
BETHEL/GRINDLE HARDWOOD FLATS	Pitt	A	B2	PRV	Acquisition or Registry	Unprotected	P3
BIG YELLOW MOUNTAIN	Avery	A	B1	TNC SAHC PRV	Dedication	TNC part is Dedicated, SAHC part is Registered	P3
BLACK ANKLE BOG	Montgomery	A	B1	PRV	Acquisition and dedication	Unprotected	P2
BLACK MOUNTAIN-CELO KNOB NATURAL AREA	Yancey	A	B1	USFS	Registry, Special Interest Area, Research Natural Area designation	Registered	P4
BLACK RIVER CYPRESS FOREST	Bladen	A	B1	TNC PRV	Registry, conservation easement, acquisition, or dedication	Part Nature Conservancy preserve and easement	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
BLACKROCK MOUNTAIN-GRANITE CITY	Macon Jackson	A	B1	USFS PRV	Registry and Research Natural Area designation, acquisition or registry of private portion	Forest Service portion proposed for registry; no current protection	P2
BLUFF MOUNTAIN	Ashe	A	B1	TNC PRV	Dedication, complete acquisition	Park Registered, Nature Conservancy Preserve, part unprotected	P2
BOG HOLE	Scotland	A	B2	WRC	Registry	Registered	P4
BOILING SPRING LAKES--WETLAND COMPLEX	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
BONES FORK PINE AND SHRUB COMMUNITY	Richmond	A	B2	WRC	Registry	Registered	P4
BROAD CREEK MARSHES	Camden	B	B3	PRV	Registry	Unprotected	P3
BROAD CREEK NECK	Bertie	B	B3	PRV	Acquisition, registry	Unprotected	P2
BROADNECK RIDGE	Bertie	B	B2	NCWRC	Research Natural Area designation	National Wildlife Refuge	P4
BROADNECK SWAMP	Bertie	B	B2	FWS	Registry or dedication	Nature Conservancy Preserve	P4
BUCK CREEK SERPENTINIZED OLIVINE BARRENS	Clay	A	B1	USFS	Registry, Research Natural Area designation	Registered	P3
BUCKSKIN CREEK-GREAT SWAMP	Currituck	B	B2	PRV	Registry	Unprotected	P2
BUSHY LAKE STATE NATURAL AREA	Cumberland	A	B1	NCSP PRV	Complete acquisition, dedication	Part of the Natural Area is Registered	P3
BUXTON WOODS	Dare	A	B1	NPS NCCM PRV	Acquisition of private portions dedication of state portions, registry of NPS portions	NPS part is registered, NCCM part is a Coastal Reserve	P1
BUZZARD POINT	Halifax	B	B3	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
CAMASSIA SLOPES	Northampto	A	B2	TNC NCDC	Dedication	Part dedicated Nature Conservancy Preserve, part registered	P4
CAMP LEJEUNE LIMESINK COMPLEX	Onslow	A	B2	DOD	Registry, Research Natural Area designation	Unprotected	P3
CAPE HATTERAS POINT	Dare	A	B1	NPS	Registry	Registered	P4
CATAWBA COUNTY WILDLIFE CLUB HEARTLEAF SITE	Catawba	A	B2	PRV	Registry	Registered	P4
CHARLIE LONG MILL POND-BIG COLLY BAY	Bladen	A	B3	NCSF	Dedication	Registered	P4
CHATTOOGA RIVER GORGE-ELLICOTT ROCK	Jackson Macon	B	B1	PRV USFS	Registry, Wilderness designation	National Wild & Scenic River Corridor, portion in Ellicott Rock National Wilderness Area	P4
CHIMNEY ROCK NATURAL AREA	Rutherford	A	B1	PRV	Conservation easement	Registered	P4
CLARK ESTATE	Bertie	B	B2	PRV	Acquisition or registry	Unprotected	P3
COMPANY SWAMP	Bertie	B	B2	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4
CONABY CREEK/ROANOKE RIVER SWAMP	Washington	B	B2	PRV	Registry	Unprotected	P3
CONINE ISLAND	Bertie	B	B2	WRC	Transfer to FWS, research Natural Area designation	Status in transition	P4
CONIOTT CHERRYBARK OAK RIDGE	Bertie	B	B2	PRV	Conservation easement, acquisition, or dedication	Unprotected	P2
CORE BANKS AND PORTSMOUTH ISLAND	Carteret	A	B2	NPS	Registry	Registered	P4
COVE CREEK-BRADLEY FALLS NATURAL AREA	Polk	A	B1	WRC	Dedication	No formal protection status	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
CRAWFORD LAKE	Scotland	A	B1	WRC	Registry	No formal protection status	P2
CROATAN POCOSINS	Craven Carteret Jones	A	B2	USFS PRV	Registry, Research Natural Area, Wilderness designation	Registered, Part Wilderness Area and Research Natural Area	P4
CROW CREEK FALLS	Macon	A	B1	PRV	Acquisition by Forest Service, registry	Unprotected	P3
CULLASAJA GORGE	Macon	A	B1	USFS	Registry	Registered	P4
DEVIL'S GUT SLOUGH	Martin	A	B2	PRV TNC	Complete acquisition, dedication	Part Dedicated Nature Conservancy Preserve	P2
DUNAHOE BAY	Robeson	A	B1	TNC PRV	Continued acquisition, dedication	Registered	P3
ELLER SEEP	Clay	A	B1	PRV TNC	Registry	Nature Conservancy Preserve	P4
ENO RIVER DIABASE SILL	Durham	A	B1	PRV	Registry and conservation easement	Part registered	P2
ETOWAH BOG	Henderson	A	B1	PRV	Registry	Part registered, rest unprotected	P2
FAIRCLOTH ROAD POND PINE POCOSIN	Dare	A	B2	DOD	Registry and Research Natural Area designation	Registered	P2
FLAT SWAMP CREEK HEARTLEAF PLANTAIN SITE	Davidson	A	B2	PRV	Registry	Unprotected	P2
FORT BRAGG COLEMAN IMPACT AREA	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
FORT BRAGG MAC RIDGE IMPACT AREA	Cumberland Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
FORT BRAGG MCPHERSON IMPACT AREA	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
FROGSBORO UPLAND DEPRESSION FOREST	Caswell	A	B2	NCWRC	Dedication	Unprotected	P3
GIBBS POINT	Currituck	B	B3	PRV	Registry	Unprotected	P3
GIBBS WOODS	Currituck	B	B3	PRV	Registry	Unprotected	P3
GOOSE POND CAROLINA BAY	Robeson	A	B1	TNC PRV	Continued acquisition	Part Registered Nature Conservancy Preserve	P1
GOSHEN GABBRO FOREST	Granville	A	B2	PRV	Acquisition, dedication, or registry	Unprotected	P1
GRANDFATHER MOUNTAIN	Avery Caldwell Watauga	A	B1	PRV NPS PRV	Dedication	Part registered	P1
GREAT SMOKY MOUNTAINS NATIONAL PARK	Swain Haywood	A	B1	NPS	Wilderness designation	Registered; Proposed Wilderness International Biosphere Reserve	P4
GREEN SWAMP PRESERVE	Brunswick	A	B1	TNC	Dedication	Registered	P5
HAMMOCKS BEACH STATE PARK	Onslow	A	B2	NCSP	Dedication	Registered	P4
HANGING ROCK MOUNTAIN	Watauga Avery	A	B1	PRV	Complete protection through acquisition or more easements	Part registered and under conservation easement to TNC	P1
HANGING ROCK STATE PARK	Stokes	A	B1	PRV NCSP	Dedication	Registered	P4
HIBBS ROAD PINE RIDGES	Carteret	A	B2	USFS	Registry	Unprotected	P3
HORSEPASTURE RIVER GORGE	Transylvan	A	B1	USFS PRV	Registry, acquisition of private portions	Part registered, national and state Wild & Scenic River	P3

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
HORSESHOE LAKE (SUGGS MILLPOND) AND MARSHY BAY	Bladen	A	B2	PRV	Easement or acquisition	Unprotected	P3
INDIANTOWN CREEK-NORTH RIVER CYPRESS FOREST	Currituck	B	B2	PRV	Registry or Dedication	Unprotected	P3
ISLAND CREEK	Jones	A	B1	USFS PRV	Acquisition of private portion, registry, Research Natural	Forest Service part registered, private part unprotected	P2
JOE-LITTLE JOE MOUNTAINS	Alexander	A	B1	TNC PRV	Complete acquisition, dedication	Part Nature Conservancy Preserve	P4
JONES LAKE STATE PARK	Bladen	A	B2	NCSP	Dedication	Registered	P4
JOYCE KILMER WILDERNESS AREA	Graham	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area; Registered	P5
KELSEY NATURAL AREA	Macon	A	B2	PRV USFS	Registry, Research Natural Area designation	Registered	P4
KING CREEK BOG	Henderson	A	B1	PRV	Acquisition and dedication	Unprotected	P3
KITTY HAWK WOODS	Dare	A	B1	PRV	Acquisition and dedication	Unprotected	P1
LAKE ELLIS SIMON	Craven	A	B2	PRV	Registry, conservation easement	Registered	P4
LAKE WACCAMAW STATE LAKE	Columbus	A	B1	NCSP	Dedication; Outstanding Resource Water designation	Registered	P4
LANIER QUARRY SAVANNA	Pender	A	B1	TNC PRV	Acquisition of private portions, dedication	Part Nature Conservancy Preserve	P1
LINK (SLOAN) BOG	Iredell	A	B1	PRV	Acquisition	Unprotected	P2
LINVILLE CAVERNS	Mcdowell	A	B1	PRV	Conservation easement or dedication	Registered	P4
LINVILLE GORGE	Burke	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area, registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
LITTLE PETERS CREEK BLUFFS	Stokes	A	B1	PRV	Registry or management agreement	Unprotected	P4
LITTLE TENNESSEE RIVER AQUATIC HABITAT	Macon Swain	A	B1	PW	Outstanding Resource Water designation	Designated Critical Habitat, no formal protection status for river	P3
LONG HOPE VALLEY	Watauga Ashe	A	B1	PRV	Conservation easement or dedication	No formal protection status; Designated National Natural Landmark	P3
LYMAN ROAD CYPRESS SAVANNA	Onslow	A	B1	DOD	Registry, Research Natural designation	Unprotected	P3
MCINTOSH BAYS (TUNSTALL'S, BIG CYPRESS, RABBIT RUN)	Scotland	A	B1	PRV TNC	Acquisition of private portions, dedication	Registered Nature Conservancy Preserve	P1
MILITARY OCEAN TERMINAL SUNNY POINT	Brunswick	A	B1	DOD	Registry, Research Natural Area designation	Unprotected	P3
MILL POND BAY NATURAL AREA	Bladen Cumberland	A	B2	PRV PRV	Registry	Registered	P3
MILLIS ROAD LONGLEAF PINE SAVANNA AND POCOSIN	Carteret	A	B2	USFS	Registry, Research Natural Area designation	Registered	P4
MINERAL SPRINGS BARRENS	Union	A	B1	PRV	Registry or acquisition	Unprotected	P1
MITCHELL'S MILLPOND STATE NATURAL AREA	Wake	A	B2	NCSP PRV	Dedication; Acquisition of private portions	Most of the state-owned portion is registered	P4
MOSS NECK SAVANNA	Robeson	A	B2	PRV	Registry	Unprotected	P2
MOUNT MITCHELL STATE PARK	Yancey	A	B1	PRV NCSP	Dedication	Registered, National Natural Landmark	P3
MYRTLE HEAD SAVANNA	Brunswick	A	B1	TNC	Dedication	Nature Conservancy Preserve	P4
NAGS HEAD WOODS	Dare	A	B1	PRV LOCAL TNC	Acquisition of private portions, dedication	TNC part dedicated, town part registered	P2

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
NAKED CREEK AQUATIC HABITAT	Richmond Montgomery	B	B2	PW PW	Outstanding Resource Water designation	Designated Outstanding Resource Water	P3
NAKED CREEK WHITE CEDAR STAND	Richmond	B	B2	WRC	Registry	Registered	P4
NELLIE BELL POND, MARSH, AND CEDAR SWAMP	Currituck	A	B3	PRV	Registry	Unprotected	P3
NORRIS CREEK MICHAUX'S SUMAC SITE	Franklin	A	B1	PRV	Registry or management agreement	Unprotected	P3
NORTH FORK WATERSHED	Buncombe	A	B2	LOCAL NPS	Registry	Small NPS part is registered; Registry proposal on rest was refused	P3
NORTH RIVER/DEEP CREEK MARSHES AND FOREST	Currituck	B	B3	PRV	Registry, conservation easement	Part Registered	P3
NORTHWEST RIVER MARSH GAME LAND	Currituck	A	B3	NCWRC	Registry	Unprotected	P3
OAK SAVANNA BAY	Robeson	A	B2	TNC PRV	Acquisiton of private portions, dedication	Part Nature Conservancy Preserve	P1
OCCONEECHEE NECK FLOODPLAIN FOREST	Northampt	B	B3	PRV	Registry	Unprotected	P2
OCHLAWAHA BOG	Henderson	A	B1	TNC PRV	Continued acquisition by TNC, dedication when complete	TNC part registered, TNC working on remainder	P3
ORTON CREEK SAVANNA	Brunswick	B	B2	PRV	Registry or acquisition	Unprotected	P2
ORTON POND	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
OVERHILLS ESTATE	Hoke Cumberland Harnett	A	B1	PRV	Conservation easement	No formal protection status	P3
OVERTON ROCK	Franklin	B	B2	PRV	Registry, acquisition by conservation organization	Registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
PAINT HILL	Moore	A	B1	PRV	Acquisition or easement	Small part registered, part under conservation easement	P1
PANTHERTOWN VALLEY	Jackson	A	B1	USFS	Registry, Research Natural Area or Scenic Area designation	No formal protection status	P4
PATSY POND COMPLEX	Carteret	A	B2	PRV USFS	Registry, Research Natural Area designation	Registered	P2
PEE DEE NATIONAL WILDLIFE REFUGE	Anson	A	B2	PRV FWS	Research Natural Area designation	Registered	P3
PICTURE CREEK DIABASE BARRENS	Granville	A	B1	NCDA	Dedication	Unprotected	P1
PINEOLA BOG	Avery	A	B1	PRV	Conservation easement	Part Registered	P2
PRINGLE ROAD POCOSIN AND SAND RIDGES	Carteret	A	B1	USFS	Registry, Research Natural Area designation	Unprotected	P3
REEVES AREA FLOODPLAIN	Columbus Brunswick	B	B3	PRV	Registry	Unprotected	P3
ROAN MOUNTAIN MASSIF	Avery Mitchell	A	B1	USFS SAHC PRV	Complete acquisition, registry & preserve dedication	National Natural Landmark; SAHC and USFS portions registered	P4
ROANOKE BIG OAK WOODS	Halifax	B	B3	PRV	Registry	Registered	P4
ROANOKE RIVER DELTA ISLANDS	Bertie	B	B3	NCWRC PRV	Acquisition of additional lands, transfer to FWS, Research Natural Area designation	Part in National Wildlife Refuge	P3
ROCKY POINT MARL FOREST	Pender	A	B1	PRV	Acquisition or dedication	Unprotected	P2
ROCKY RIVER-DEEP RIVER AQUATIC HABITAT	Chatham Lee	A	B1	PW	Outstanding Resource Water or High Quality Water designation	Unprotected	P1
SCOTLAND LANE ANNUAL BURN AREA	Scotland	B	B3	WRC	Registry	Registered	P4

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
SCRANTON HARDWOOD FOREST	Hyde	A	B2	PRV	Registry or management agreement	No formal protection status	P3
SOUTH BUTNER CEDAR GLADES	Granville	A	B1	NCHR	Registry	Registered	P4
SPARTA BOG	Alleghany	A	B2	PRV	Registry	Unprotected	P2
STILL LANE SEEPAGE SLOPES	Scotland	A	B2	WRC	Registry	Registered	P4
STONE MOUNTAIN STATE PARK	Wilkes Alleghany	A	B2	NCSP PRV	Dedication of natural areas	Registered National Natural Landmark	P3
SUGAR MOUNTAIN NATURAL AREA	Avery	A	B1	PRV	Acquisition by TNC	Unprotected	P3
SWIFT CREEK AQUATIC HABITAT	Nash Edgecombe Franklin	A	B1	PW	Outstanding Resource Water designation	Unprotected	P1
TAR RIVER (GRANVILLE) AQUATIC HABITAT	Granville	A	B1	PW	High Quality Water or Outstanding Resource Water designation	Unprotected	P1
TATUM MILL POND-CYPRESS BAY	Bladen	A	B3	NCSF	Dedication	Registered	P4
TEMPLE ROANOKE RIVER FOREST	Halifax	B	B3	PRV	Registry	No formal protection status	P3
THE CRAGGIES	Buncombe	A	B1	USFS NPS LOCAL	Registry	Registered	P4
THE PINK BEDS	Transylvan	A	B1	USFS	Registry and Research Natural Area designation	Registered	P3
THEODORE ROOSEVELT STATE NATURAL AREA	Carteret	A	B2	LOCAL NCSP PRV	Dedication	Registered, Outstanding Resource Waters	P1
THOMPSON RIVER GORGE	Transylvan	A	B1	PRV	Registry or acquisition	Unprotected	P3
THREE TOP MOUNTAIN	Ashe	A	B1	PRV	Registry	Unprotected	P2

Natural Area Name	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
TOXAWAY RIVER GORGE	Transylvan	A	B1	PRV	Registry or acquisition	Small areas registered, rest unprotected	P3
TROUBLESOME POINT OAK FLATS AND MARSH	Currituck	B	B3	PRV	Registry	Unprotected	P3
TURKEY CREEK LEAST TRILLIUM SITE	Nash	A	B1	TNC	Dedication	Nature Conservancy Preserve	P4
UPPER WACCAMAW RIVER SWAMP	Columbus	A	B1	NCSP PRV	Registry or acquisition	Small part registered, rest unprotected	P3
US 264 LOW POCOSIN (FLOATING PEAT BOG)	Dare	A	B2	DOD FWS	Registry, Research Natural Area designation	DOD part registered, majority unprotected	P4
VENTOSA PLANTATION	Halifax	B	B3	PRV	Registry, acqusition	Registered	P3
WACCAMAW RIVER AQUATIC HABITAT	Columbus Brunswick	A	B1	PW	High Quality Water designation	Unprotected	P3
WALNUT CREEK SUMAC SITE	Wake	A	B1	DOT LOCAL	Registry/management agreement	Management agreement, but threatened by proposed highway widening	P3
WHITE OAK MOUNTAIN-TRYON PEAK	Polk	A	B1	PRV	Registry	Unprotected	P2
WHITESIDE MOUNTAIN-DEVILS COURTHOUSE	Jackson	A	B1	USFS	Registry	Registered	P4
WHITEWATER RIVER FALLS AND GORGE	Jackson Transylvan	A	B1	PRV USFS	Registry, acquisition of private portions	National Forest portion Registered Natural Area and Special Interest Area	P3
WOODS MOUNTAIN-SINGECAT RIDGE	Mcdowell	A	B1	USFS	Registry	No formal protection status	P4
ZEKE'S ISLAND	New Hanov	B	B3	NCCM	Dedication	Dedicated	P5

HIGHEST PRIORITY SITES OCCURRING IN MACROSITES OR MEGASITES

HIGHEST PRIORITY SITES OCCURRING IN MACROSITES OR MEGASITES

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ALLIGATOR RIVER WETLANDS MEGASITE	Dare Hyde Tyrrell	A	B2				
Alligator River Swamp Forest	Dare Hyde	A	B2	DOD FWS PRV	Research Natural Area designation, registry	Small DOD portion is Registered Natural Area; most is National Wildlife Refuge	P3
Alligator River-Swan Lake Swamp Forest	Hyde	A	B2	FWS PRV	Research Natural Area designation, registry; acquire outstanding white cedar timber rights	Most is National Wildlife Refuge	P3
Faircloth Road Pond Pine Pocosin	Dare	A	B2	DOD	Registry and Research Natural Area designation	Registered	P2
US 264 Low Pocosin (Floating Peat Bog)	Dare	A	B2	DOD FWS	Registry, Research Natural Area designation	DOD part registered, majority unprotected	P4
BLACK MOUNTAIN-CRAGGY MOUNTAIN COMPLEX MEGASITE	Buncombe Yancey	A	B1				
Black Mountain-Celo Knob Natural Area	Yancey	A	B1	USFS	Registry, Special Interest Area, Research Natural Area designation	Registered	P4
Mount Mitchell State Park	Yancey	A	B1	PRV NCSP	Dedication	Registered, National Natural Landmark	P3
North Fork Watershed	Buncombe	A	B2	LOCAL NPS	Registry	Small NPS part is registered; Registry proposal on rest was refused	P3
The Craggies	Buncombe	A	B1	USFS NPS LOCAL	Registry	Registered	P4

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
BLADEN LAKES NATURAL AREAS MEGASITE	Bladen Cumberland	A	B1				
HORSESHOE LAKE (SUGGS MILLPOND) AND MARSHY BAY	Bladen	A	B2	PRV	Easement or acquisition	Unprotected	P3
Bushy Lake State Natural Area	Cumberland	A	B1	NCSP PRV	Complete acquisition, dedication	Part of the Natural Area is Registered	P3
Charlie Long Mill Pond-Big Colly Bay	Bladen	A	B3	NCSF	Dedication	Registered	P4
Jones Lake State Park	Bladen	A	B2	NCSP	Dedication	Registered	P4
Mill Pond Bay Natural Area	Bladen Cumberland	A	B2	PRV PRV	Registry	Registered	P3
Tatum Mill Pond-Cypress Bay	Bladen	A	B3	NCSF	Dedication	Registered	P4
CROATAN NATIONAL FOREST MEGASITE	Carteret Craven Jones	A	B1				
CROATAN POCOSINS	Craven Carteret Jones	A	B2	USFS PRV	Registry, Research Natural Area, Wilderness designation	Registered, Part Wilderness Area and Research Natural Area	P4
Hibbs Road Pine Ridges	Carteret	A	B2	USFS	Registry	Unprotected	P3
Island Creek	Jones	A	B1	USFS PRV	Acquisition of private portion, registry, Research Natural	Forest Service part registered, private part unprotected	P2
Lake Ellis Simon	Craven	A	B2	PRV	Registry, conservation easement	Registered	P4
Millis Road Longleaf Pine Savanna and Pocosin	Carteret	A	B2	USFS	Registry, Research Natural Area designation	Registered	P4

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Patsy Pond Complex	Carteret	A	B2	PRV USFS	Registry, Research Natural Area designation	Registered	P2
Pringle Road Pocosin and Sand Ridges	Carteret	A	B1	USFS	Registry, Research Natural Area designation	Unprotected	P3
CURRITUCK MAINLAND WETLANDS MEGASITE	Currituck Camden	A	B1				
BUCKSKIN CREEK-GREAT SWAMP	Currituck	B	B2	PRV	Registry	Unprotected	P2
NORTH RIVER WETLANDS MACROSITE	Currituck	A	B1				
Broad Creek Marshes	Camden	B	B3	PRV	Registry	Unprotected	P3
Indiantown Creek-North River Cypress Forest	Currituck	B	B2	PRV	Registry or Dedication	Unprotected	P3
North River/Deep Creek Marshes and Forest	Currituck	B	B3	PRV	Registry, conservation easement	Part Registered	P3
NORTHWEST RIVER-NORTH LANDING RIVER WETLANDS MACROSITE	Currituck	B	B3				
Gibbs Point	Currituck	B	B3	PRV	Registry	Unprotected	P3
Gibbs Woods	Currituck	B	B3	PRV	Registry	Unprotected	P3
Nellie Bell Pond, Marsh, and Cedar Swamp	Currituck	A	B3	PRV	Registry	Unprotected	P3
Northwest River Marsh Game Land	Currituck	A	B3	NCWRC	Registry	Unprotected	P3
Troublesome Point Oak Flats and Marsh	Currituck	B	B3	PRV	Registry	Unprotected	P3

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
ESCARPMENT GORGES MEGASITE	Macon Jackson Transylva	A	B1				
Blackrock Mountain-Granite City	Macon Jackson	A	B1	USFS PRV	Registry and Research Natural Area designation, acquisition or registry of private portion	Forest Service portion proposed for registry; no current protection	P2
Horsepasture River Gorge	Transylvan	A	B1	USFS PRV	Registry, acquisition of private portions	Part registered, national and state Wild & Scenic River	P3
Thompson River Gorge	Transylvan	A	B1	PRV	Registry or acquisition	Unprotected	P3
Toxaway River Gorge	Transylvan	A	B1	PRV	Registry or acquisition	Small areas registered, rest unprotected	P3
Whiteside Mountain-Devils Courthouse	Jackson	A	B1	USFS	Registry	Registered	P4
Whitewater River Falls and Gorge	Jackson Transylvan	A	B1	PRV USFS	Registry, acquisition of private portions	National Forest portion Registered Natural Area and Special Interest Area	P3
Chattooga River Gorge-Ellicott Rock	Jackson Macon	B	B1	PRV USFS	Registry, Wilderness designation	National Wild & Scenic River Corridor, portion in Ellicott Rock National Wilderness Area	P4
FORT BRAGG MEGASITE	Cumberland Harnett Hoke Moore	A	B1				
Fort Bragg Coleman Impact Area	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
Fort Bragg Mac Ridge Impact Area	Cumberland Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Fort Bragg McPherson Impact Area	Hoke	A	B1	DOD	Registry or Research Natural Area designation	Unprotected	P1
GREAT SMOKY MOUNTAINS NATIONAL PARK	Swain Haywood	A	B1	NPS	Wilderness designation	Registered; Proposed Wilderness International Biosphere Reserve	P4
ROAN MOUNTAIN HIGHLANDS MEGASITE	Avery Mitchell	A	B1				
Big Yellow Mountain	Avery	A	B1	TNC SAHC PRV	Dedication	TNC part is Dedicated, SAHC part is Registered	P3
Roan Mountain Massif	Avery Mitchell	A	B1	USFS SAHC PRV	Complete acquisition, registry & preserve dedication	National Natural Landmark; SAHC and USFS portions registered	P4
ROANOKE RIVER MEGASITE	Martin Bertie Halifax Northampt	A	B1				
Camassia Slopes	Northampt	A	B2	TNC NCDC	Dedication	Part dedicated Nature Conservancy Preserve, part registered	P4
Devil's Gut Slough	Martin	A	B2	PRV TNC	Complete acquisition, dedication	Part Dedicated Nature Conservancy Preserve	P2
Broad Creek Neck	Bertie	B	B3	PRV	Acquisition, registry	Unprotected	P2
Broadneck Ridge	Bertie	B	B2	NCWRC	Research Natural Area designation	National Wildlife Refuge	P4
Broadneck Swamp	Bertie	B	B2	FWS	Registry or dedication	Nature Conservancy Preserve	P4

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Buzzard Point	Halifax	B	B3	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4
Clark Estate	Bertie	B	B2	PRV	Acquisition or registry	Unprotected	P3
Company Swamp	Bertie	B	B2	NCWRC	Transfer to FWS, Research Natural Area designation	Status in transition	P4
Conaby Creek/Roanoke River Swamp	Washington	B	B2	PRV	Registry	Unprotected	P3
Conine Island	Bertie	B	B2	WRC	Transfer to FWS, research Natural Area designation	Status in transition	P4
Coniott Cherrybark Oak Ridge	Bertie	B	B2	PRV	Conservation easement, acquisition, or dedication	Unprotected	P2
Occoneechee Neck Floodplain Forest	Northampt	B	B3	PRV	Registry	Unprotected	P2
Roanoke Big Oak Woods	Halifax	B	B3	PRV	Registry	Registered	P4
Roanoke River Delta Islands	Bertie	B	B3	NCWRC PRV	Acquisition of additional lands, transfer to FWS, Research Natural Area designation	Part in National Wildlife Refuge	P3
Temple Roanoke River Forest	Halifax	B	B3	PRV	Registry	No formal protection status	P3
Ventose Plantation	Halifax	B	B3	PRV	Registry, acqusition	Registered	P3
SANDHILLS GAME LAND MEGASITE	Scotland Richmond Moore	A	B1				
Beaver Dam Creek-Little Muddy Creek	Scotland	A	B1	WRC	Registry	Registered	P3
Bog Hole	Scotland	A	B2	WRC	Registry	Registered	P4

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
Bones Fork Pine and Shrub Community	Richmond	A	B2	WRC	Registry	Registered	P4
Crawford Lake	Scotland	A	B1	WRC	Registry	No formal protection status	P2
Still Lane Seepage Slopes	Scotland	A	B2	WRC	Registry	Registered	P4
Naked Creek Aquatic Habitat	Richmond Montgomery	B	B2	PW PW	Outstanding Resource Water designation	Designated Outstanding Resource Water	P3
Naked Creek White Cedar Stand	Richmond	B	B2	WRC	Registry	Registered	P4
Scotland Lane Annual Burn Area	Scotland	B	B3	WRC	Registry	Registered	P4
SOUTHEASTERN BRUNSWICK COUNTY MEGASITE	Brunswick	A	B1				
ORTON PLANTATION MACROSITE	Brunswick	A	B1	PRV	Registry or acquisition	Unprotected	P2
Orton Pond	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
Orton Creek Savanna	Brunswick	B	B2	PRV	Registry or acquisition	Unprotected	P2
Boiling Spring Lakes--Wetland Complex	Brunswick	A	B1	PRV	Acquisition	Unprotected	P2
Military Ocean Terminal Sunny Point	Brunswick	A	B1	DOD	Registry, Research Natural Area designation	Unprotected	P3
WACCAMAW RIVER WETLANDS MEGASITE	Brunswick Columbus	A	B1				
MIDDLE WACCAMAW RIVER MACROSITE	Brunswick Columbus	A	B2				
Reeves Area Floodplain	Columbus Brunswick	B	B3	PRV	Registry	Unprotected	P3

MEGASITES (With MACROSITES and Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
UPPER WACCAMAW RIVER SWAMP	Columbus	A	B1	NCSP PRV	Registry or acquisition	Small part registered, rest unprotected	P3
Lake Waccamaw State Lake	Columbus	A	B1	NCSP	Dedication; Outstanding Resource Water designation	Registered	P4
Waccamaw River Aquatic Habitat	Columbus Brunswick	A	B1	PW	High Quality Water designation	Unprotected	P3

MACROSITES (with Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
BALD HEAD-SMITH ISLAND COMPLEX MACROSITE	Brunswick	A	B1				
Bald Head Island	Brunswick	A	B1	PRV	Conservation acquisition, dedication	Unprotected, ongoing development, National Natural Landmark	P2
Bald Head Island State Natural Area	Brunswick	B	B2	WRC NCSP	Dedication	Registered, National Natural Landmark	P4
Zeke's Island Estuarine Sanctuary	New Hanov	B	B3	NCCM	Dedication	Dedicated	P5
BUTNER NATURAL AREAS MACROSITE	Granville	A	B1				
Picture Creek Diabase Barrens	Granville	A	B1	NCDA	Dedication	Unprotected	P1
South Butner Cedar Glades	Granville	A	B1	NCHR	Registry	Registered	P4
CAMP LEJEUNE MACROSITE	Onslow	A	B1				
Camp Lejeune Limesink Complex	Onslow	A	B2	DOD	Registry, Research Natural Area designation	Unprotected	P3
Lyman Road Cypress Savanna	Onslow	A	B1	DOD	Registry, Research Natural designation	Unprotected	P3
CAPE HATTERAS NATIONAL SEASHORE MACROSITE	Dare Hyde	A	B1				
Buxton Woods	Dare	A	B1	NPS NCCM PRV	Acquisition of private portions dedication of state portions, registry of NPS portions	NPS part is registered, NCCM part is a Coastal Reserve	P1
Cape Hatteras Point	Dare	A	B1	NPS	Registry	Registered	P4
CAPE LOOKOUT NATIONAL SEASHORE MACROSITE	Carteret	A	B1				
Core Banks and Portsmouth Island	Carteret	A	B2	NPS	Registry	Registered	P4

MACROSITES (with Standard Sites Nested)	County	Site Sign	Biodiv Rank	Owner Type	Conservation Intent	Protection Status	Protection Urgency
GREEN SWAMP PRESERVE	Brunswick	A	B1	TNC	Dedication	Registered	P5
HICKORYNUT GORGE MACROSITE	Rutherford Henderson	A	B1				
Bat Cave	Rutherford	A	B1	PRV/ TNC	Conservation easement, dedication, or acquisition	Leased to NC Nature Conservancy; Registered	P4
Chimney Rock Natural Area	Rutherford	A	B1	PRV	Conservation easement	Registered	P4
HOLLY SHELTER GAME LAND MACROSITE	Pender	A	B1				
JOYCE KILMER WILDERNESS AREA	Graham	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area; Registered	P5
LINVILLE GORGE MACROSITE	Burke	A	B1				
Linville Gorge	Burke	A	B1	USFS	Registry, Wilderness designation	National Wilderness Area, registered	P4
STONE MOUNTAIN ESCARPMENT COMPLEX MACROSITE	Alleghany Wilkes	A	B2				
Stone Mountain State Park	Wilkes Alleghany	A	B2	NCSP PRV	Dedication of natural areas	Registered National Natural Landmark	P3

APPENDIX A. ADDITIONAL REPORTS

The Natural Heritage Program periodically updates three publications that list the rare plant and animal species as well as natural communities within the state. The publications are available from the Natural Heritage Program. Titles and descriptions of these publications are listed below.

I. Natural Heritage Program List of the Rare Animal Species of North Carolina. Lists the vertebrates and invertebrates monitored by the Natural Heritage Program. Includes the mammals, birds, reptiles, and amphibians that have been designated or are proposed for listing as endangered, threatened, and special concern species. (25 pages)

II. Natural Heritage Program List of the Rare Plant Species of North Carolina. Lists 582 rare plant species monitored by the Natural Heritage Program. The listing includes the legal status information of endangered, threatened, candidate, and special concern plant species. (56 pages)

III. Classification of the Natural Communities of North Carolina. Presents a framework for the classification of natural communities in the state. A list of the natural communities follows. (325 pages)

NORTH CAROLINA NATURAL COMMUNITY TYPES (114): GLOBAL AND STATE ELEMENT RANKS

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.... SNAME:.............................................. GRANK: SRANK:
       ACIDIC COVE FOREST                                  G5        S5
       BASIC MESIC FOREST (COASTAL PLAIN SUBTYPE)          G5T3      S1?
       BASIC MESIC FOREST (MONTANE CALCAREOUS SUBTYPE)     G?        S1
       BASIC MESIC FOREST (PIEDMONT SUBTYPE)               G5T3      S2
       BASIC OAK--HICKORY FOREST                           G3G4?     S2S3?
       BAY FOREST                                          G3G4?     S3?
       BOULDERFIELD FOREST                                 G3        S3
       BRACKISH MARSH                                      G5        S5
       CANADA HEMLOCK FOREST                               G5        S5
       CAROLINA HEMLOCK BLUFF                              G2G3      S2
       CHESTNUT OAK FOREST                                 G5        S5
       COASTAL FRINGE EVERGREEN FOREST                     G3?       S1
       COASTAL FRINGE SANDHILL                             G3?       S1?
       COASTAL PLAIN BOTTOMLAND HARDWOODS (BLACKWATER S    G5        S3
       COASTAL PLAIN BOTTOMLAND HARDWOODS (BROWNWATER S    G5        S4
       COASTAL PLAIN LEVEE FOREST (BLACKWATER SUBTYPE)     G4        S2
       COASTAL PLAIN LEVEE FOREST (BROWNWATER SUBTYPE)     G5        S4
       COASTAL PLAIN MARL OUTCROP                          G2        S1
       COASTAL PLAIN SEMIPERMANENT IMPOUNDMENT             G5        S3
       COASTAL PLAIN SMALL STREAM SWAMP (BLACKWATER SUB    G5        S5
       COASTAL PLAIN SMALL STREAM SWAMP (BROWNWATER SUB    G4        S3
       CYPRESS SAVANNA                                     G2?       S1
       CYPRESS--GUM SWAMP (BLACKWATER SUBTYPE)             G5        S4
       CYPRESS--GUM SWAMP (BROWNWATER SUBTYPE)             G5        S4
       DIABASE GLADE                                       G1        S1
       DRY OAK--HICKORY FOREST                             G5        S5
       DRY-MESIC OAK--HICKORY FOREST                       G5        S5
       DUNE GRASS                                          G3G4      S3
       ESTUARINE FRINGE LOBLOLLY PINE FOREST               G3?       S3?
       FLOODPLAIN POOL                                     G?        S1?
       FRASER FIR FOREST                                   G1        S1
       GRANITIC FLATROCK                                   G3        S2
       GRASSY BALD                                         G2        S2
       HEATH BALD                                          G4        S3
       HIGH ELEVATION GRANITIC DOME                        G2        S2
       HIGH ELEVATION MAFIC GLADE                          G1        S1
       HIGH ELEVATION RED OAK FOREST                       G5        S5
       HIGH ELEVATION ROCKY SUMMIT                         G2        S2
       HIGH ELEVATION SEEP                                 G3        S3
       HIGH POCOSIN                                        G4        S4
       HILLSIDE SEEPAGE BOG                                G1        S1
       INTERDUNE POND                                      G3        S1
       LOW ELEVATION GRANITIC DOME                         G2        S1
       LOW ELEVATION ROCKY SUMMIT                          G2        S2
       LOW ELEVATION SEEP                                  G4?       S3
       LOW POCOSIN                                         G3        S3
       MARITIME DECIDUOUS FOREST                           G1        S1
       MARITIME DRY GRASSLAND                              G3        S2
       MARITIME EVERGREEN FOREST                           G2        S1
       MARITIME SHRUB                                      G4        S3
       MARITIME SHRUB SWAMP                                G1        S1
       MARITIME SWAMP FOREST                               G1        S1
       MARITIME WET GRASSLAND                              G3?       S2?
       MESIC MIXED HARDWOOD FOREST (COASTAL PLAIN SUBTY    G5T4      S3
       MESIC MIXED HARDWOOD FOREST (PIEDMONT SUBTYPE)      G5T5      S4
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     MESIC PINE FLATWOODS                                     G5      S4
     MONTANE ACIDIC CLIFF                                     G4      S3?
     MONTANE ALLUVIAL FOREST                                  G3      S2
     MONTANE CALCAREOUS CLIFF                                 G?      S1
     MONTANE MAFIC CLIFF                                      G2?     S1
     MONTANE OAK--HICKORY FOREST                              G5      S5
     MONTANE WHITE OAK FOREST                                 G2G3?   S2?
     NATURAL LAKE SHORELINE                                   G3      S3
     NONRIVERINE SWAMP FOREST                                 G2      S2
     NONRIVERINE WET HARDWOOD FOREST                          G1      S1
     NORTHERN HARDWOOD FOREST (BEECH GAP SUBTYPE)             G2?     S2?
     NORTHERN HARDWOOD FOREST (TYPIC SUBTYPE)                 G5      S4
     OXBOW LAKE                                               G5      S3?
     PEATLAND ATLANTIC WHITE CEDAR FOREST                     G2      S2
     PIEDMONT CALCAREOUS CLIFF                                G1      S1
     PIEDMONT LONGLEAF PINE FOREST                            G1?     S1
     PIEDMONT MAFIC CLIFF                                     G2?     S1
     PIEDMONT MONADNOCK FOREST                                G5      S4
     PIEDMONT/COASTAL PLAIN ACIDIC CLIFF                      G4      S3?
     PIEDMONT/COASTAL PLAIN HEATH BLUFF                       G4?     S3?
     PIEDMONT/LOW MOUNTAIN ALLUVIAL FOREST                    G5      S5
     PIEDMONT/MOUNTAIN BOTTOMLAND FOREST                      G5      S4
     PIEDMONT/MOUNTAIN LEVEE FOREST                           G5      S4
     PIEDMONT/MOUNTAIN SEMIPERMANENT IMPOUNDMENT              G5      S4?
     PIEDMONT/MOUNTAIN SWAMP FOREST                           G2G3    S1
     PINE SAVANNA                                             G3      S2
     PINE--OAK/HEATH                                          G5      S4
     PINE/SCRUB OAK SANDHILL                                  G4      S3
     POND PINE WOODLAND                                       G4G5    S4
     RED SPRUCE--FRASER FIR FOREST                            G2      S2
     RICH COVE FOREST                                         G4      S4
     ROCKY BAR AND SHORE                                      G5      S5
     SALT FLAT                                                G5      S4
     SALT MARSH                                               G5      S5
     SALT SHRUB                                               G5      S4
     SAND AND MUD BAR                                         G5      S5
     SANDHILL SEEP                                            G2      S1?
     SMALL DEPRESSION POCOSIN                                 G2?     S1
     SMALL DEPRESSION POND                                    G3      S2
     SOUTHERN APPALACHIAN BOG (NORTHERN SUBTYPE)              G1      S1
     SOUTHERN APPALACHIAN BOG (SOUTHERN SUBTYPE)              G1      S1
     SOUTHERN APPALACHIAN FEN                                 G1      S1
     SPRAY CLIFF                                              G1      S1
     STREAMHEAD ATLANTIC WHITE CEDAR FOREST                   G3      S2
     STREAMHEAD POCOSIN                                       G4      S3
     SWAMP FOREST-BOG COMPLEX (SOUTHERN SUBTYPE)              G2      S1
     SWAMP FOREST-BOG COMPLEX (SPRUCE SUBTYPE)                S1      S1
     TIDAL CYPRESS--GUM SWAMP                                 G3      S2?
     TIDAL FRESHWATER MARSH                                   G4      S2?
     ULTRAMAFIC OUTCROP BARREN                                G1      S1
     UPLAND DEPRESSION SWAMP FOREST                           G3      S2
     UPLAND POOL                                              G1      S1
     UPPER BEACH                                              G4      S3
     VERNAL POOL                                              G3      S2
     WET MARL FOREST                                          G1?     S1

     WET PINE FLATWOODS                                       G3G4    S3
     WHITE PINE FOREST                                        GU      S2?
     XERIC HARDPAN FOREST                                     G3G4    S3
     XERIC SANDHILL SCRUB                                     G5      S4
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